



January 6, 2005

Mr. Frank Battaglia (2 copies)
USEPA Region I
Office of Site Remediation and Restoration (HBT)
JFK Federal Building
Boston, MA 02203

**Re: Annual Monitoring Report for 2004
Ciba Specialty Chemicals, 180 Mill Street, Cranston, RI 02905
EPA ID RID001194323**

Dear Mr. Battaglia:

Ciba is submitting the annual Site-Wide Monitoring Program (SWMP) report for the Ciba Specialty Chemicals facility located at 180 Mill Street, Cranston, RI. The report covers the results of monitoring activities performed at the referenced facility in October 2004. The monitoring activities followed for the SWMP are described in the Pawtuxet River Corrective Measures Study (PRCMS) Report (Section 3.5.1, page 3-12) as submitted to the USEPA in August 1996.

Ciba is pleased to report all groundwater-monitoring locations are meeting the Media Protection Standards (MPS) established for the Site's groundwater. This achievement is attributed to the 2002 soil remediation contributing to the elimination of source contamination in groundwater.

The Groundwater Extraction and Treatment System is controlling releases to the Pawtuxet River. Remediation of contamination is working and the report describes the on going improvement in the area north of the bulkhead.

If you have questions or need additional information, please contact me at 732 914-2537 or fax 732 914-2909.

Sincerely,

Barry G
Barry Cohen
Compliance Manager

c: Ms. Margaret Dein Bradley, RIDEM



Ciba

Rec'D

1-11-05

F.B.

ANNUAL MONITORING REPORT

**CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND**

MONITORING RESULTS

FOR

2004

**CIBA SPECIALTY CHEMICALS CORPORATION
TOMS RIVER, NEW JERSEY 08754**

	<u>Page No.</u>
1.0 SUMMARY	1
2.0 OBJECTIVE	3
3.0 INTRODUCTION	3
4.0 MEDIA PROTECTION STANDARDS	3
5.0 SEMIANNUAL MONITORING RESULTS	4
5.1 Hydraulic Monitoring	4
5.2 Monitoring for Chemicals Of Concern	5
6.0 DISCUSSION	6
7.0 CONCLUSION	7

LIST OF TABLES

Table 1 Media Protection Standards	4
Table 2 Monitoring Results - Chemicals of Concern	6
Table 3 Upgradient Wells - Cumulative Results for Chemicals of Concern	Appendix B
Table 4 Bulkhead Wells - Cumulative Results for Chemicals of Concern	Appendix C
Table 5 In-River Wells - Cumulative Results for Chemicals of Concern	Appendix D

LIST OF FIGURES

Figure 1	Pre-Pump & Treat Potentiometric Surface Map	Appendix A
Figure 2	Potentiometric Surface Map	Appendix A
Figure 3	History of Influent Treatment Plant TTO Concentrations	2

LIST OF APPENDICES

Appendix A Tabulated Groundwater Elevation Data and Potentiometric contours

Appendix B Time-Series Graphs and Data for Upgradient Wells

Appendix C Time-Series Graphs and Data for Bulkhead Wells

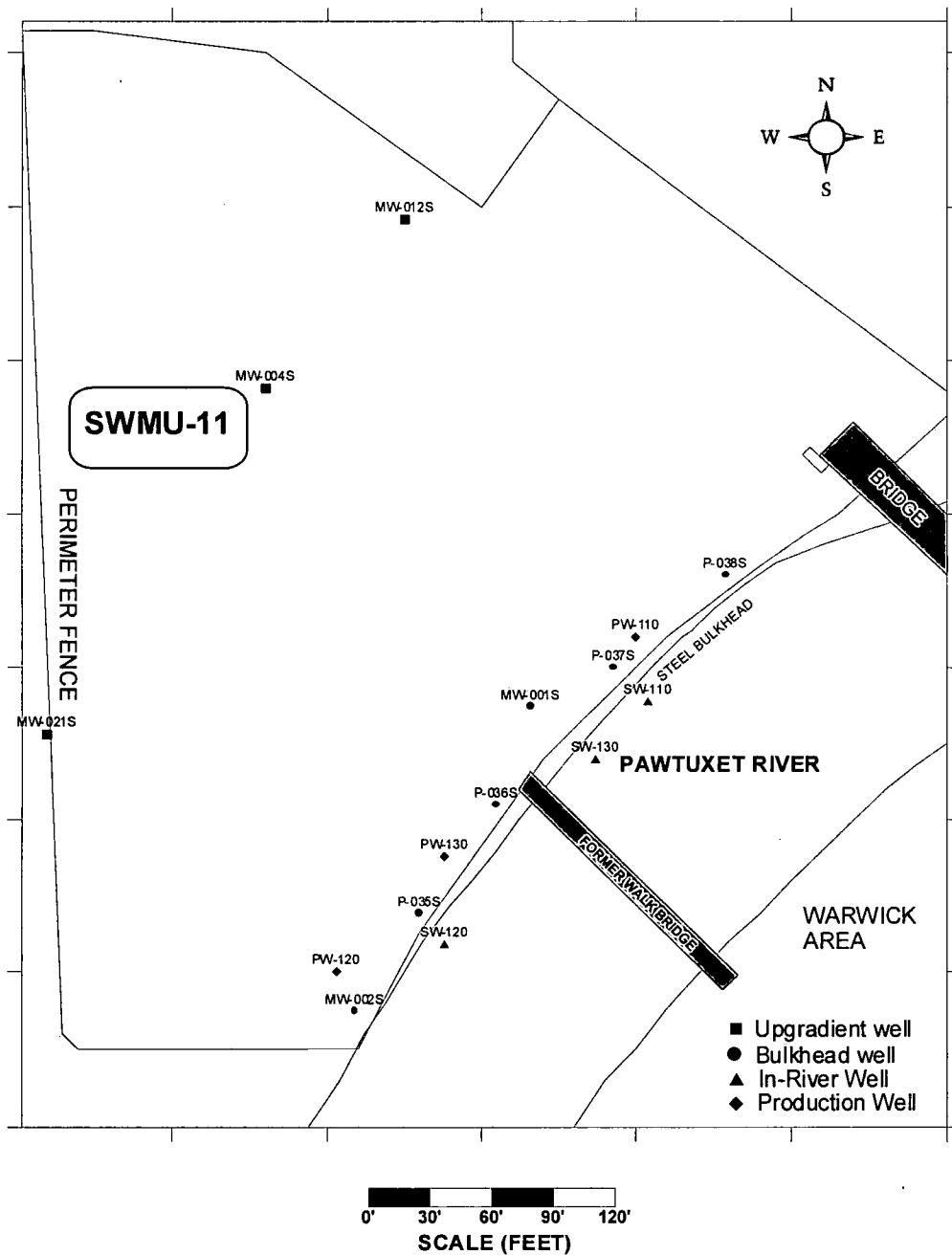
Appendix D Time-Series Graphs and Data for In-River Wells

Appendix E Certificate of Analysis - R. I. Analytical

WELL LOCATION MAP

CIBA SPECIALTY CHEMICALS CORPORATION (FORMERLY CIBA-GEIGY CORPORATION) CRANSTON, RI FACILITY FORMER PRODUCTION AREA

Chemical Well Monitoring Network



1.0 SUMMARY

On June 16, 1989, Ciba-Geigy Corporation (now Ciba Specialty Chemicals Corporation (Ciba)) entered into an Administrative Order on Consent (AOC) with the USEPA. The AOC required Ciba to conduct a Corrective Measures Study (CMS) and propose Media Protection Standards (MPSs) for the former manufacturing facility at Cranston, RI (the Facility). MPSs for five chemicals of concern (COC) were developed (see Table 1) and are monitored in all wells as part of the Site-Wide Monitoring Program (SWMP).

The 2004 annual monitoring episode was performed on October 4-5, at which time 11 monitor wells and 3 extraction wells were sampled and analyzed by Rhode Island Analytical for a suite of chemicals including the COC. A twelfth well, SW-130, was not sampled due to a blockage within the well that placed the well out of service. Since this well has demonstrated mostly non-detect for contaminants Ciba has requested in a letter to the EPA dated July 15, 2003, that the well be dropped from the monitoring program. Annual water level readings were recorded on October 4, 2004.

A third extraction well, PW-130, began operating on December 20, 1999. The new well complements the two existing extraction wells to achieve hydraulic capture of the plume along the bulkhead in the former Production Area. The potentiometric surface map (Figure 2, Appendix A) demonstrates capture along the bulkhead.

The sampling results for October 2004 shows all monitor wells meeting the MPSs. These results need to be confirmed and a special sampling for April 2005 will be scheduled to retest the wells. These results are significant since it represents the first time since the monitoring program was initiated in 1996 that all monitor wells have meet the critical standards for Media Protection. This achievement, if confirmed, would be the result of contaminated soil remediation performed in the SWMU-11 area and completed in late 2002.

Since 1995 Ciba has captured and treated contaminated groundwater destined to reach the Pawtuxet River. A database for this captured influent to the treatment plant is maintained by Ciba and represents the Total Toxic Organics (TTO) of groundwater. TTO is a measured component of the POTW discharge that Ciba must comply with for the City of Cranston, which includes VOAs and Base Neutrals. The 9-year history of influent TTO along with the logarithmic trend is presented below in Figure 3. The trend is to lower TTO, and except for 2-years when soil remediation increased the groundwater TTO, is expected to continue downward.

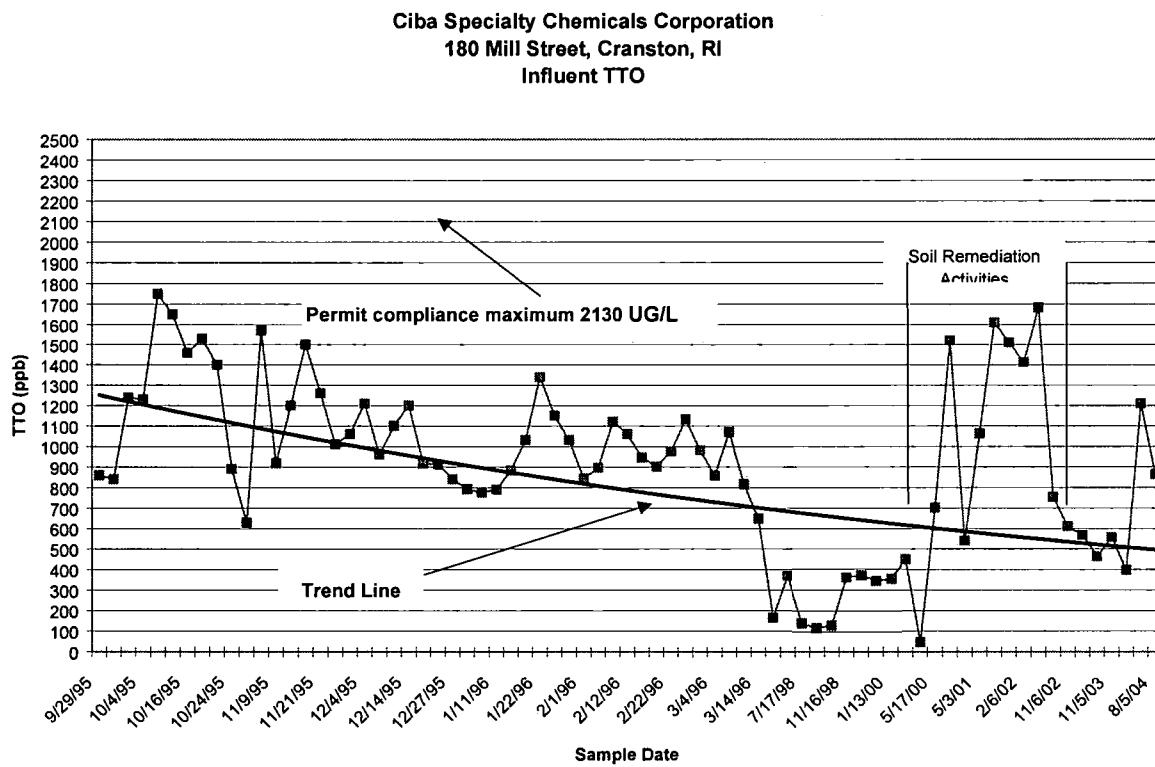


Figure 3. History of influent Treatment Plant TTO concentrations, 1995 to the present.

The next monitoring episode is scheduled for April 2005, when confirmation sampling will test SWMP monitor wells.

2.0 OBJECTIVE

The objectives of the Site-Wide Monitoring Program are to evaluate groundwater quality and verify the Groundwater Extraction and Treatment System (GETS) is controlling releases to the Pawtuxet River while long-term corrective measures to areas of concern are being addressed, specifically SWMU-11.

3.0 INTRODUCTION

In August 1996, Ciba submitted to the USEPA a Pawtuxet River Corrective Measures Study (PRCMS) Report. In the PRCMS report (Section 3.5.1, page 3-12) Ciba proposed to measure groundwater elevations in the former Production area following startup of the groundwater capture system until the groundwater capture and pretreatment system were shutdown.

Therefore, groundwater elevation data is collected from 23 wells to show if shallow contaminated groundwater in the former Production area is hydraulically controlled from discharging into the Pawtuxet River.

Inclusive of the PRCMS Ciba also proposed to monitor groundwater quality at the Facility. Groundwater was sampled semiannually from 12 selected overburden-monitor wells to evaluate changes in groundwater quality, specifically for the 5 chemicals of concern. As of 2004 Ciba initiated annual monitoring as agreed to by the USEPA.¹

4.0 MEDIA PROTECTION STANDARDS

During the RCRA Facility investigation an MPS² was developed for each of five chemical contaminants detected in the former Production Area groundwater. These contaminants and their respective MPSs are summarized in Table 1 and discussed in detail in the PRCMS Report, Section 2.4.1.

¹ Email exchanges between B. Cohen, Ciba, and F. Battaglia, USEPA, dated March 9, 2004.

² From the Public Health and Environmental Risk Evaluation (PHERE) that concluded the sole receptor impacted by contaminated groundwater were benthic invertebrates in the shallow sediments of the Pawtuxet River.

Table 1
Media Protection Standards
of Chemical Of Concern
CIBA-GEIGY, Cranston R.I. Facility
Former Production Area

Compound	MPS Concentration (ppb)
1,2-dichlorobenzene	94
chlorobenzene	1700
ortho-chlorotoluene	1500
toluene	1700*
xylenes	76

* Rhode Island Groundwater Objective GB - Groundwater classified as GB has been designated by the Rhode Island Department of Environmental Management (RIDEM) as not suitable for public or private drinking water use.

5.0 ANNUAL MONITORING RESULTS

This report summarizes the groundwater quality results for the COC sampling that was performed October 4-5, 2004. The COC data are compared to previous sampling rounds dating back to March 1996, when monitoring activities were initiated. Also in this report are results of the hydraulic monitoring performed on October 4, 2004. The current hydraulic results are compared to pre-pumping baseline conditions dated September 30, 1993 (see Appendix A).

5.1 Hydraulic Monitoring

Piezometric contours for the overburden aquifer were created using data collected from 23 groundwater monitor wells and 3 extraction wells using Golden Software, Inc., SURFER FOR WINDOWS, Version 5.01 software.

The tabulated groundwater elevation data and the associated potentiometric contours, Figures 1 and 2, are included in Appendix A.

The kriging contour algorithm was used as a best fit method of approximating the directional groundwater flow pattern. The baseline results in Figure 1 show groundwater flow from northwest to southeast to the Pawtuxet River. Figure 2 shows the effect of the 3 extraction wells on the groundwater flow. Well PW-110 north of the walk bridge shows groundwater capture at present pumping capacity 41 GPM; the second and third extraction wells, PW-120 (2 GPM) and PW-130 (22 GPM), are capturing the plume along the bulkhead south of the walk

bridge. Together the 3 wells are capturing the groundwater plume that would otherwise pass by the bulkhead to the Pawtuxet River.

The hydraulic capture along the bulkhead is discussed in detail in the report "Capture Zone Analysis, Former Production area, Cranston, Rhode Island" dated July 7, 2000.

5.2 Monitoring for Chemicals of Concern (COC)

Eleven wells were sampled as part of the SWMP. The wells are divided into three main groups; shown on the Location Map in Section iii of this report. The COC analytical results are tabulated and included in Table 2 at the end of this section.

Three wells, MW-004S, 012S, and 021S are designated upgradient to the Bulkhead wells. Wells MW-004S & 021S, continue to show the presence of contamination in chlorobenzene and o-chlorotoluene, though below their respective MPS. Trends focusing on contamination are down in both wells with improvement in groundwater quality over the last 4-years.

Results for the 6 Bulkhead wells show the presence of varying levels of chlorobenzene except for P-038S, a well furthest from the contamination, and north of the former walk bridge. Though chlorobenzene remains the major contaminant it now falls below the MPS. Also present is 1,2-dichlorobenzene at the southern bulkhead well P-035S and o-chlorotoluene in 3 of the 6 wells. Neither contaminant is present in concentrations that exceed the MPS.

Well MW-002S with the highest concentration of chlorobenzenes at 1600 ppm is within close proximity to pumping well PW-120. Both wells show high concentration of contamination and are located at the southeastern section of the property. Increases of contamination at MW-002S were first observed in April 2000 along with wells MW-001S and P-035S. This increase followed the introduction of the new extraction well PW-130 in December 1999.

The "P" wells, 036S, 037S, and, 038S north of the former walk bridge have not changed much over the past 5 years. Chlorobenzene remains prominent for these wells except for P-038S, where non-detect results for all COC contaminants are now typical.

The In-river wells are located beyond the bulkhead in the Pawtuxet River. Two In-river wells were sampled and a third well, SW-130, was not sampled due to a blockage within the well casing. Ciba requested and was approved by the EPA to discontinue monitoring at this well. It should be noted that well SW-130 has not shown any significant amounts of contamination since April 2000. Well SW-120 shows a presence of chlorobenzene at 48 ppb a result typical for this well when viewed over the past 7 years of monitoring. Well SW-110 was non-detect for all COC contaminants a considerable improvement over the years when chlorobenzene would range from

1000-2500 ppb. Since 2001 the in-river wells have remained almost free of contamination a reflection of the success of the GETS.

Table 2

Monitoring Results for October 4-5, 2004
Chemicals Of Concern
(as ppb)

Well Designation	Well Number	MPS	94	1700	1500	1700	76
			1,2-Dichloro-Benzene	Chloro-Benzene	O-Chloro-Toluene	Toluene	Xylenes
Upgradient	MW-004S		10 U	12	90	10 U	10 U
	MW-012S		1 U	1 U	1 U	1 U	1 U
	MW-021S		1 U	1 U	170	1 U	1 U
Bulkhead	MW-001S	10 U	1000	10 U	10 U	10 U	10 U
	MW-002S	50 U	1600	58	110		50 U
	P-035S	18	200	130	10 U	10 U	10 U
	P-036S	10 U	350	11	10 U	10 U	10 U
	P-037S	10 U	350	10 U	10 U	10 U	10 U
	P-038S	1 U	1 U	1 U	1 U	1 U	1 U
In-River	SW-110	1 U	1 U	1 U	1 U	1 U	1 U
	SW-120	1 U	48	1 U	1 U	1 U	1 U
	SW-130	NA	NA	NA	NA	NA	NA
Extraction	PW-110	1 U	26	22	1 U	1 U	1 U
	PW-120	6200	4800	140	65 U	50 U	
	PW-130	19	250	100	17	10 U	

U = Non-detect with detection limit given

J = Estimated value

NA = Not Available, sample not taken. Well blockage

MPS Exceedance

6.0 DISCUSSION

The October 2004, Certificate of Analysis by R.I. Analytical is included in Appendix E. The cumulative results from 1996 to the present for 11 wells and 5 COCs are included as Tables 3, 4, and 5 in Appendices B, C, and D respectively. The cumulative results of each COC are plotted as Time-Series graphs for a better perception of trends. These graphs are also found in the respective Appendices B, C, and D.

Trends in all COCs are apparent at all Upgradient wells. The trends in all five contaminants tracked in the Time-series graphs are approaching non-detect if not already there.

All 6 Bulkhead wells meet the MPS values for the first time since the inception of the SWMP. However, at least 5 of the 6 wells have chlorobenzenes, as well as, at least one other COC. The good news is that most of the trends in contamination are down. The contamination in a few wells e.g., MW-002S and P-036S has stabilized and will eventually decrease over time since the source of contamination (soils) is no longer present.

The 2 of 3 In-river wells that were sampled are generally low to non-detect for contamination. These wells located beyond the bulkhead in the Pawtuxet River have consistently shown improvement since Ciba began the operation of the GETS.

7.0 CONCLUSION

Groundwater quality in the former Production Area continues to improve over time. All monitoring locations meet the MPS for all COC tested. Influent contamination as measured by the TTO to the GETS has decreased over time confirming the success of engineering efforts to reducing source contamination.

The lack of any contamination in well P-038S at the northern end of the bulkhead and the lack of contamination found in extraction PW-110, may represent an opportunity for a future shutdown of this pumping well a suggestion proposed in Ciba's last submittal.

The next well sampling is a special confirmatory sampling scheduled for April 2005.

APPENDIX A

TABULATED

GROUNDWATER ELEVATION DATA

AND

POTENTIOMETRIC CONTOURS

**CIBA SPECIALTY CHEMICALS CORPORATION
(FORMERLY CIBA-GEIGY CORPORATION)
180 MILL STREET
CRANSTON, RI**

GROUNDWATER MONITORING

October 4, 2004 September 30, 1993

MONITORING WELL	TOC MSL FEET	TOC TO WATER FEET	GW ELEVATION MSL FEET	GW ELEVATION MSL FEET
PW-110	15.72	17.47	-3.78	NA
PW-120	14.25	13.70	5.52	NA
PW-130	16.59	20.10	-11.85	NA
MW-001S	15.04	8.38	7.62	9.39
MW-002S	14.46	8.68	8.64	9.21
MW-003S	16.61	8.35	8.45	7.96
MW-004S	21.29	12.04	5.79	10.72
MW-010S	22.62	12.30	4.96	11.34
MW-012S	22.54	12.50	4.72	10.54
MW-013S	18.44	10.10	7.12	9.83
MW-020S	21.94	11.44	5.88	11.53
MW-022S	16.87	8.25	9.16	9.63
MW-023S	20.71	dry	4.86	9.41
MW-024S	21.04	dry	6.32	10.89
MW-034S	18.85	9.20	8.21	10.4
P-001S	16.41	10.00	6.84	9.17
P-002S	13.85	7.90	9.36	8.38
P-003S	15.45	8.27	8.18	7.09
P-004S	19.92	10.10	7.69	11.07
P-005S	21.18	11.90	5.39	10.68
P-006S	23.62	13.85	3.41	10.39
P-034S	17.15	8.25	9.02	10.12
P-035S	15.32	9.70	7.58	8.51
P-036S	15.91	10.00	7.39	8.62
P-037S	15.69	10.05	6.91	8.96
P-038S	16.19	8.52	8.27	8.74

NA - Not Available

Figure 1

CIBA SPECIALTY CHEMICALS CORPORATION
CRANSTON, RI FACILITY
FORMER PRODUCTION AREA

Pre-Pump & Treat Potentiometric Surface Map
September 30, 1993

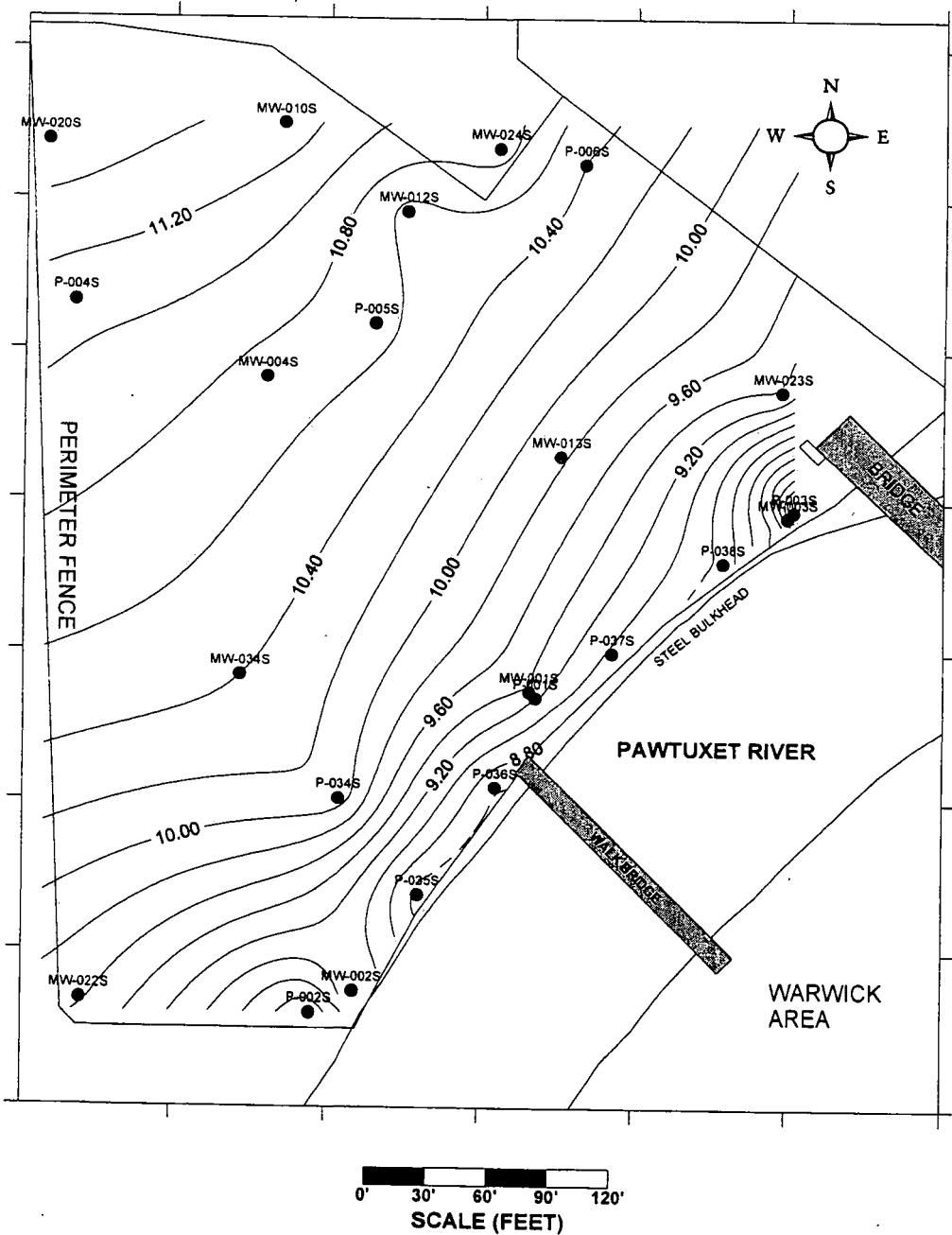
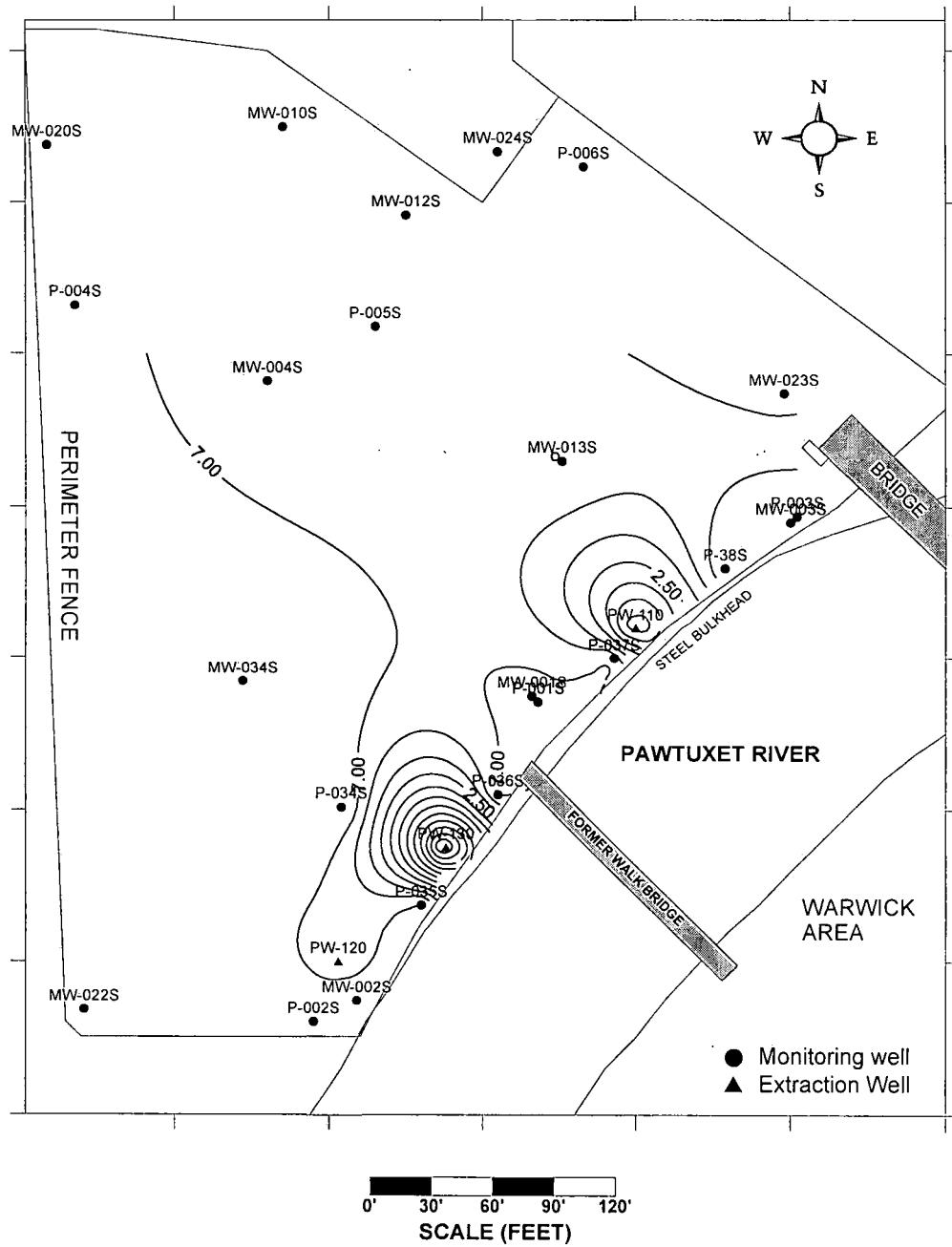


Figure 2

**CIBA SPECIALTY CHEMICALS CORPORATION
CRANSTON, RI FACILITY
FORMER PRODUCTION AREA**

Potentiometric Surface Map
October 4, 2004



APPENDIX B

TIME-SERIES

FOR

UPGRADIENT WELLS

Table 3
UPGRADIENT WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

Well No.	Date Sampled	,2-Dichloro-benzene	Chloro-benzene	o-Chloro-toluene	Toluene	Xylenes
MPS		94	1700	1500	1700	76
MW-004S	6-Mar-96	89	210	1700	2100	300
MW-004S	1-May-96	88	130	1200	1500	160
MW-004S	9-Apr-97	43	44	160	88	100
MW-004S	8-Oct-97	72	41	660	370	480
MW-004S	28-Apr-98	40	220	1200	2700	130
MW-004S	15-Oct-98	100 U	580	300	100 U	100 U
MW-004S	16-Apr-99	50 U	50 U	50	50 U	730
MW-004S	27-Sep-99	31	93	400	20 U	79
MW-004S	20-Apr-00	74	170	20 U	84	20 U
MW-004S	22-Sep-00	30 U	240	30 U	30 U	30 U
MW-004S	19-Apr-01	1 U	1	36	1 U	2
MW-004S	18-Oct-01	2	5	20	1 U	1
MW-004S	5-Apr-02	1 U	1	1 U	1 U	1 U
MW-004S	11-Oct-02	1 U	1 U	5	1 U	1 U
MW-004S	2-Apr-03	1 U	3	5	66	4
MW-004S	2-Oct-03	6	11	72	1 U	4
MW-004S	17-Oct-04	10 U	12	90	10 U	10 U
MW-012S	5-Mar-96	4.3 U	2.4 J	2 U	2.8 U	75
MW-012S	2-May-96	4.3 U	1.5 J	2 U	2.8 U	42
MW-012S	10-Apr-97	1 U	1 U	1 U	1 U	1 U
MW-012S	8-Oct-97	1 U	1 U	1 U	1 U	12
MW-012S	28-Apr-98	1 U	1 U	1 U	1 U	65
MW-012S	15-Oct-98	10 U	10 U	10 U	10 U	87
MW-012S	16-Apr-99	10 U	12	10 U	10 U	24
MW-012S	27-Sep-99	58	1 U	1 U	1 U	6
MW-012S	20-Apr-00	1 U	1 U	1 U	1 U	1
MW-012S	22-Sep-00	1 U	2	1 U	1 U	1
MW-012S	18-Apr-01	1 U	1 U	1 U	1 U	25
MW-012S	18-Oct-01	1 U	3	1 U	1 U	1 U
MW-012S	5-Apr-02	1 U	1 U	1 U	1 U	1 U
MW-012S	11-Oct-02	1 U	1 U	1 U	1 U	1 U
MW-012S	2-Apr-03	1 U	1 U	1 U	1 U	2
MW-012S	2-Oct-03	1 U	1 U	1 U	1 U	1 U
MW-012S	17-Oct-04	1 U	1 U	1 U	1 U	1 U
MW-021S	6-Mar-96	43 U	30 U	480	12 J	34 U
MW-021S	1-May-96	22 U	5 J	820	15	17 U
MW-021S	10-Apr-97	1 U	1 U	120	1	6
MW-021S	27-Oct-97	30	49	24000	20000	1600
MW-021S	28-Apr-98	1 U	1 U	54	1 U	1 U
MW-021S	15-Oct-98	100 U	100 U	7900	2500	580
MW-021S	15-Apr-99	50 U	50 U	9000	50 U	520
MW-021S	27-Sep-99	40 U	40 U	8100	40 U	110
MW-021S	20-Apr-00	40 U	40 U	11000	40 U	40 U
MW-021S	22-Sep-00	500 U	500 U	16000	500 U	500 U
MW-021S	19-Apr-01	10 U	10 U	440	10 U	10 U
MW-021S	18-Oct-01	50 U	50 U	12000	270	210
MW-021S	5-Apr-02	10 U	10 U	420	10 U	10 U
MW-021S	11-Oct-02	2	2	940	6	38
MW-021S	2-Apr-03	1 U	1 U	72	1 U	1
MW-021S	3-Oct-03	6	10	3300	38	72
MW-021S	18-Oct-04	1 U	1 U	170	1 U	1 U

MPS = Media Protection Standard

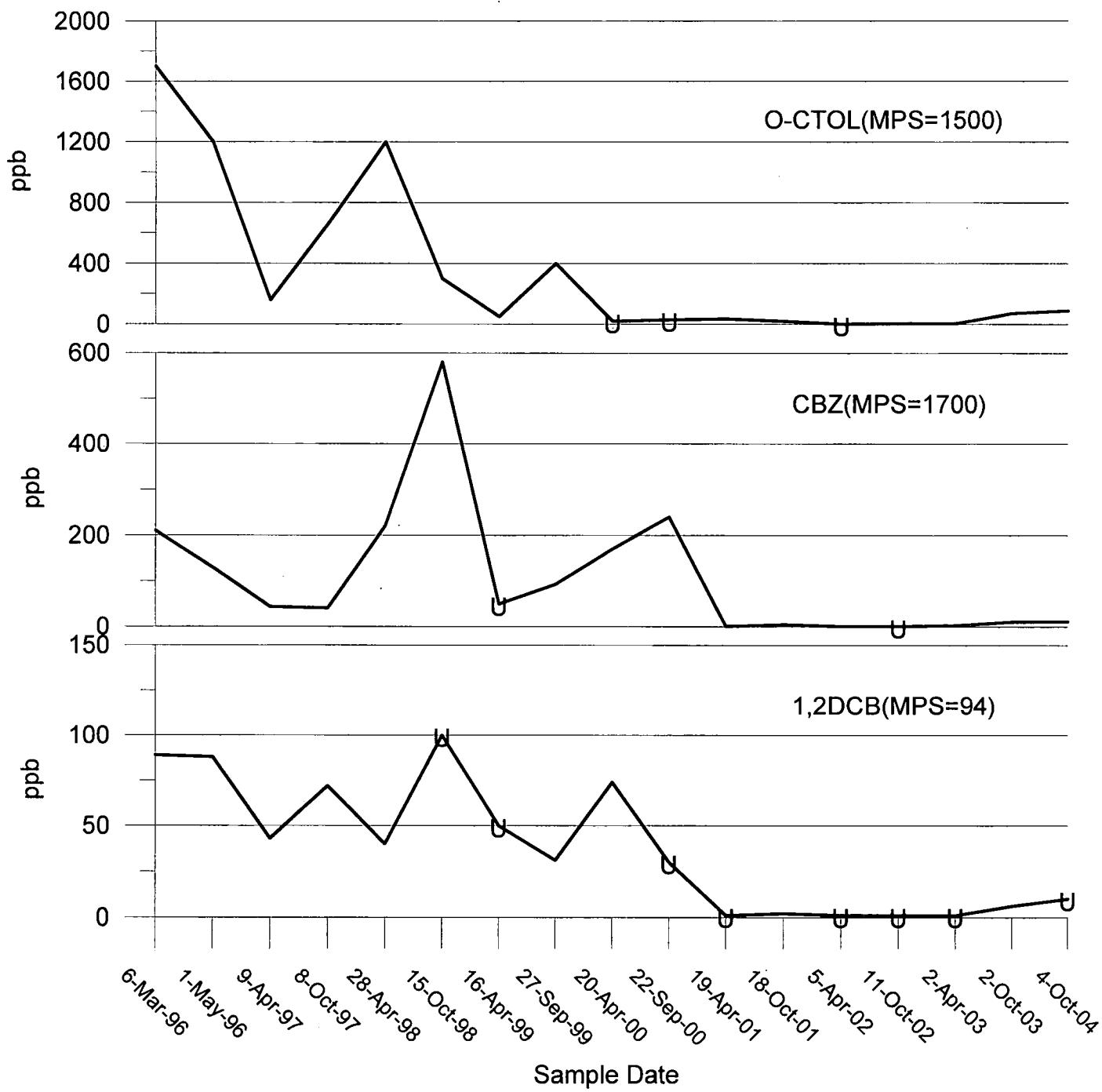
U = Nondetect with detection limit given

J = Estimated value

Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-004S
Upgradient Well

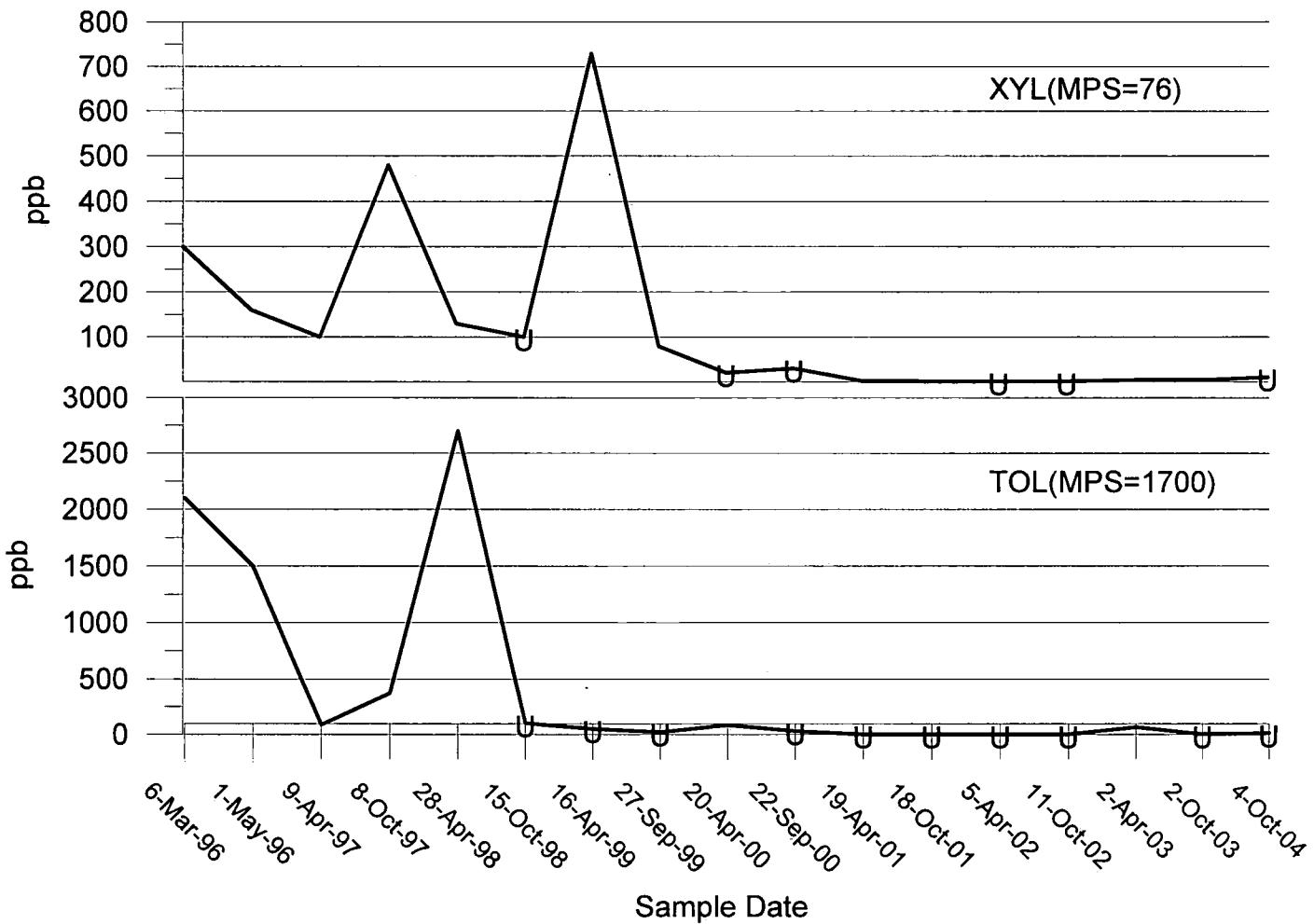
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Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-004S
Upgradient Well

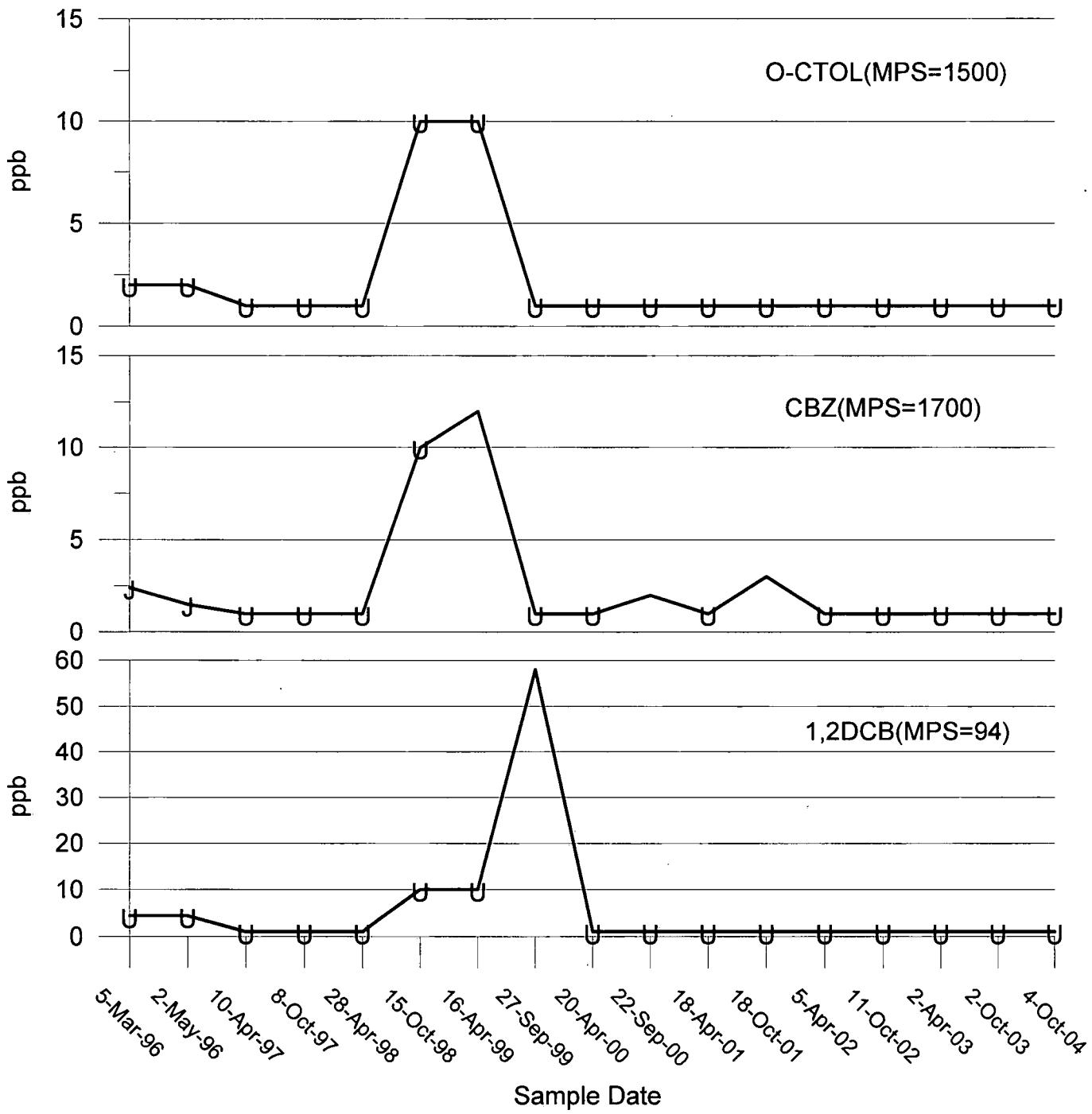
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Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-012S
Upgradient Well

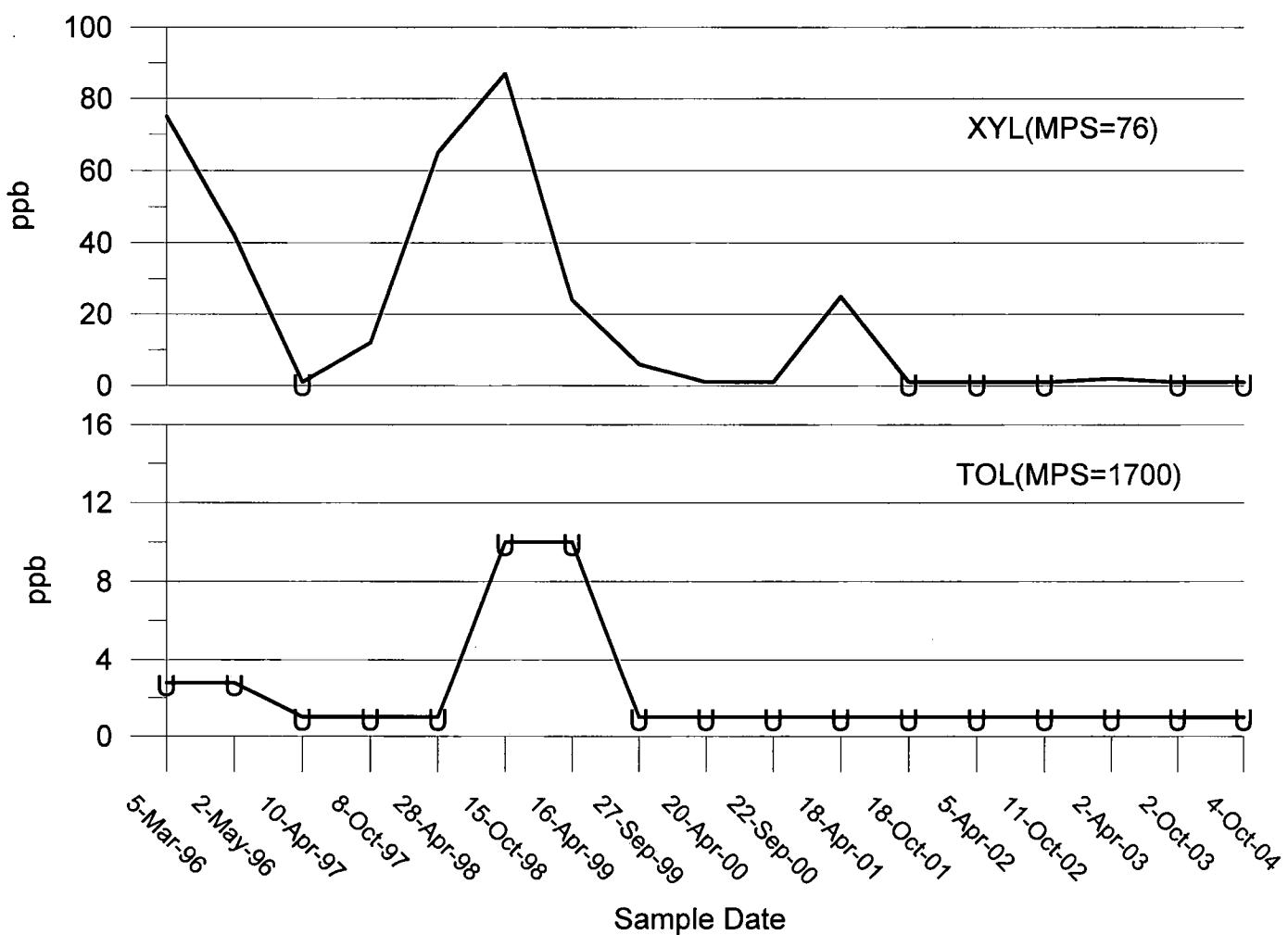
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Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-012S
Upgradient Well

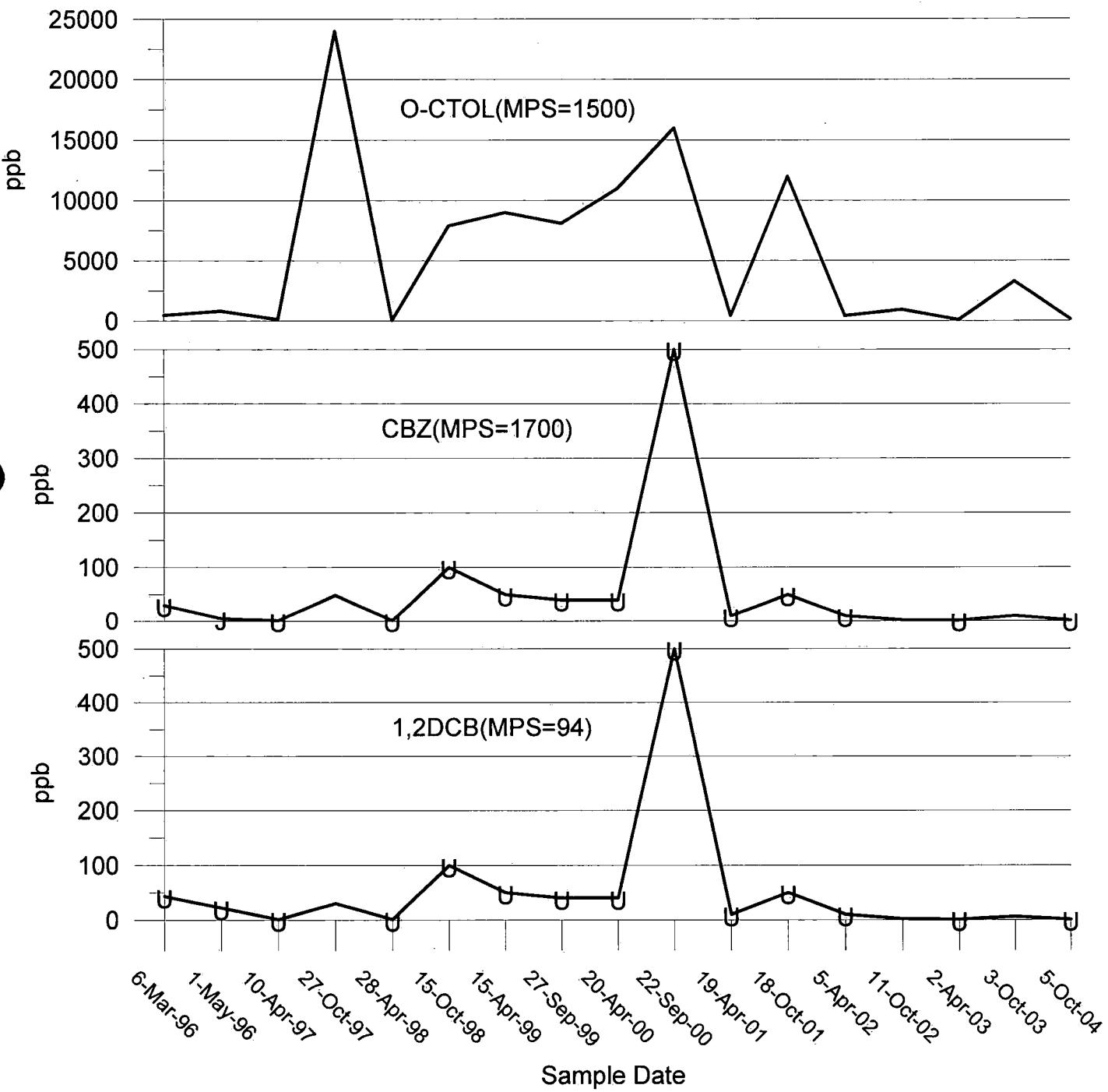
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Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-021S
Upgradient Well

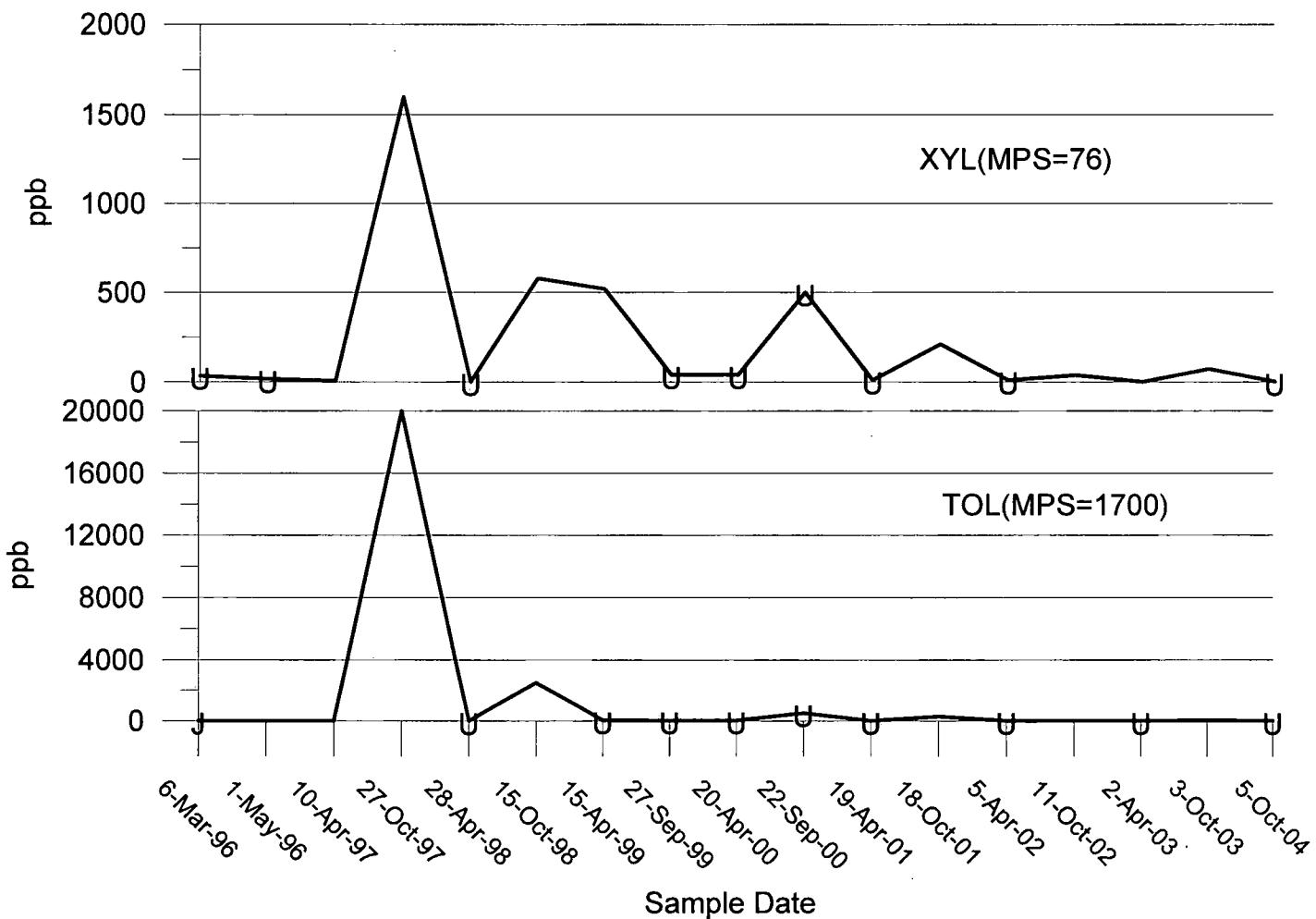
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Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-021S
Upgradient Well

"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



APPENDIX C
TIME-SERIES GRAPHS
FOR
BULKHEAD WELLS

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

Well No.	Date Sampled	1,2-Dichloro-benzene → 94	Chloro-benzene 1700	o-Chloro-toluene 1500	Toluene 1700	Xylenes 76
MW-001S	6-Mar-96	22 U	2000	10 U	16	18
MW-001S	1-May-96	110 U	5500	50 U	30 J	85 U
MW-001S	10-Apr-97	1	93	1 U	9	7
MW-001S	7-Oct-97	1	640	30	23	2
MW-001S	27-Apr-98	1 U	2800	1 U	1	2
MW-001S	15-Oct-98	100 U	2800	100 U	100 U	100 U
MW-001S	15-Apr-99	50 U	50 U	50 U	50 U	50 U
MW-001S	27-Sep-99	40 U	2300	40 U	40 U	40 U
MW-001S	20-Apr-00	40 U	40 U	40 U	40 U	40 U
MW-001S	21-Sep-00	450	2500	1 U	1 U	1 U
MW-001S	18-Apr-01	10 U	1600	10 U	10 U	10 U
MW-001S	18-Oct-01	10 U	1700	10 U	10 U	10 U
MW-001S	4-Apr-02	10 U	1700	10 U	10 U	10 U
MW-001S	11-Oct-02	10 U	1800	10 U	10 U	10 U
MW-001S	2-Apr-03	10 U	320	10 U	10 U	10 U
MW-001S	2-Oct-03	10 U	1300	10 U	10 U	10 U
MW-001S	17-Oct-04	10 U	1000	10 U	10 U	10 U
MW-002S	5-Mar-96	340	3200	50 U	200	85 U
MW-002S	30-Apr-96	44 J	2500	50 U	52 J	85 U
MW-002S	8-Apr-97	20	64	1 U	46	18
MW-002S	7-Oct-97	90	440	100	97	31
MW-002S	27-Apr-98	22	500	1 U	88	28
MW-002S	15-Oct-98	28	5200	1 U	92	34
MW-002S	15-Apr-99	140	2260	10 U	420	33
MW-002S	27-Sep-99	43	2800	40 U	40 U	40 U
MW-002S	20-Apr-00	1340	12000	150	830	120
MW-002S	21-Sep-00	930	9400	500 U	500 U	500 U
MW-002S	18-Apr-01	50 U	1400	50 U	95	50 U
MW-002S	18-Oct-01	1800	12000	170	120	33
MW-002S	5-Apr-02	360	4700	100 U	230	50 U
MW-002S	11-Oct-02	360	8800	50 U	140	50 U
MW-002S	3-Apr-03	66	2000	50 U	200	50 U
MW-002S	3-Oct-03	500	7000	50 U	120	50 U
MW-002S	17-Oct-04	50 U	1600	58	110	50 U
P-035S	8-Apr-97	22	74	1 U	4	12
P-035S	7-Oct-97	240	710	2	10	12
P-035S	27-Apr-98	42	360	1 U	2	10
P-035S	15-Oct-98	140	2100	10 U	130	80
P-035S	15-Apr-99	20	480	10 U	10 U	10 U
P-035S	27-Sep-99	40 U	40 U	40 U	40 U	40 U
P-035S	20-Apr-00	4580	77000	300	160	56
P-035S	21-Sep-00	6600	11000	500 U	500 U	500 U
P-035S	18-Apr-01	2000	2100	67	50 U	50 U
P-035S	18-Oct-01	9000	11000	310	81	34
P-035S	4-Apr-02	9600	8800	380	100 U	50 U
P-035S	11-Oct-02	1300	970	79	10 U	10 U
P-035S	3-Apr-03	97	280	11	10 U	10 U
P-035S	3-Oct-03	240	610	67	10 U	10 U
P-035S	17-Oct-04	18	200	130	10 U	10 U
P-036S	6-Mar-96	22 U	440	10 U	14 U	17 U
P-036S	1-May-96	22 U	460	30	14 U	17 U
P-036S	8-Apr-97	1 U	72	1 U	1 U	2
P-036S	7-Oct-97	1 U	35	9	2	1 U
P-036S	27-Apr-98	1 U	260	1 U	1 U	1 U
P-036S	15-Oct-98	1 U	230	1 U	1 U	1
P-036S	15-Apr-99	10 U	200	10 U	10 U	10 U
P-036S	27-Sep-99	10 U	450	10 U	10 U	10 U
P-036S	20-Apr-00	1 U	290	1 U	1 U	1 U
P-036S	21-Sep-00	30 U	300	30 U	30 U	30 U

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

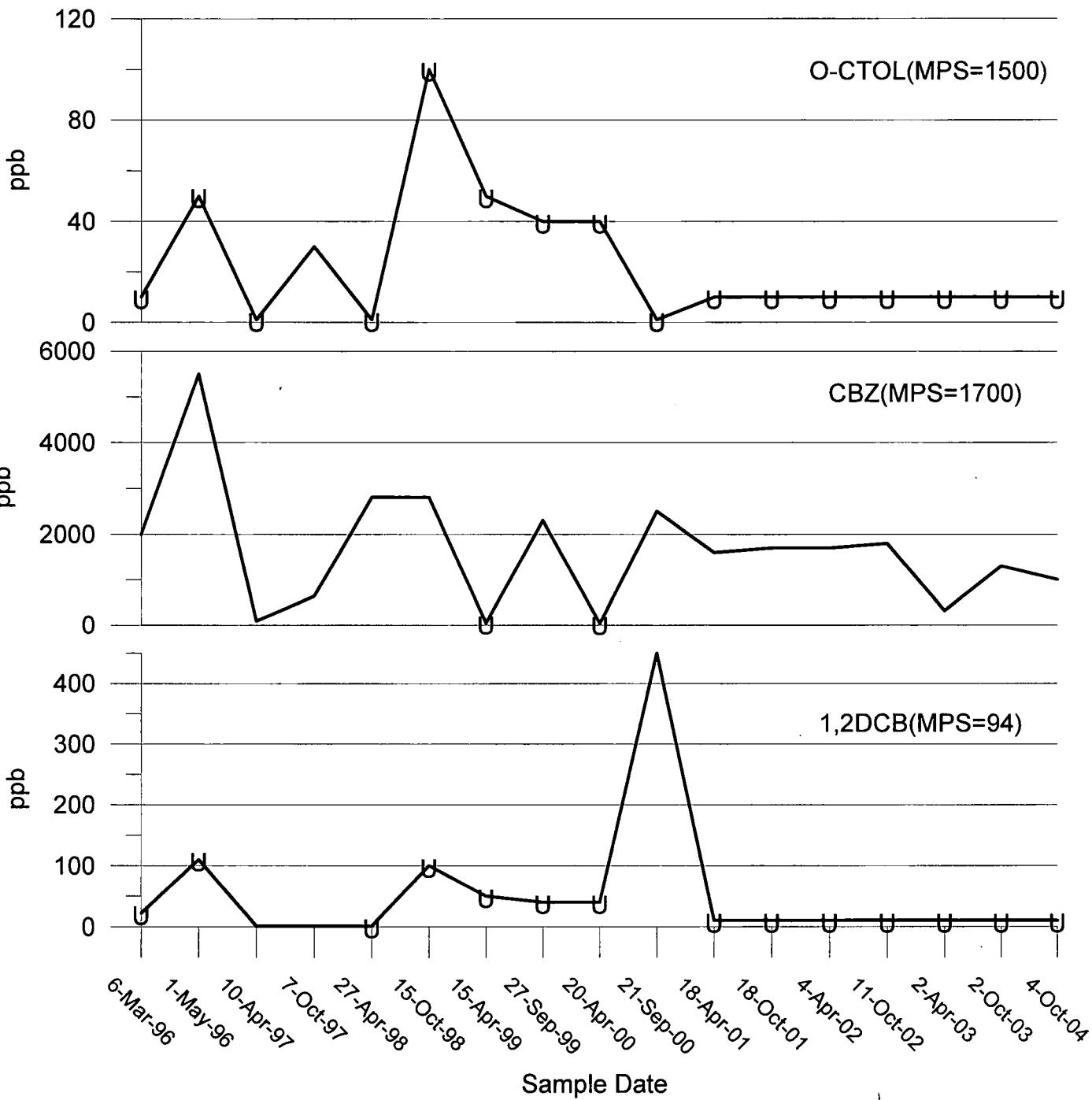
Well No.	Date Sampled	1,2-Dichloro-benzene 94	Chloro-benzene 1700	o-Chloro-toluene 1500	Toluene 1700	Xylenes 76
P-036S	18-Apr-01	10 U	280	10 U	10 U	10 U
P-036S	18-Oct-01	1 U	170	1 U	1 U	1 U
P-036S	4-Apr-02	1 U	230	1 U	1	1 U
P-036S	11-Oct-02	1	410	6	1 U	1 U
P-036S	3-Apr-03	10 U	210	10 U	10 U	10 U
P-036S	2-Oct-03	10 U	420	10 U	10 U	10 U
P-036S	17-Oct-04	10 U	350	11	10 U	10 U
P-037S	9-Apr-97	2 U	54	16	1 U	1
P-037S	8-Oct-97	2	50	13	1 U	1 U
P-037S	28-Apr-98	2	420	8	1 U	1 U
P-037S	15-Oct-98	30 U	540	30 U	30 U	30 U
P-037S	15-Apr-99	10 U	210	10 U	10 U	10 U
P-037S	27-Sep-99	10 U	660	10 U	10 U	10 U
P-037S	20-Apr-00	1 U	460	5	1 U	1 U
P-037S	21-Sep-00	30 U	370	30 U	30 U	30 U
P-037S	18-Apr-01	10 U	330	10 U	10 U	10 U
P-037S	18-Oct-01	2	240	1 U	1 U	1 U
P-037S	4-Apr-02	10 U	360	10 U	10 U	10 U
P-037S	11-Oct-02	10 U	420	10 U	10 U	10 U
P-037S	2-Apr-03	10 U	270	10 U	10 U	10 U
P-037S	2-Oct-03	10 U	350	10 U	10 U	10 U
P-037S	16-Oct-04	10 U	350	10 U	10 U	10 U
P-038S	6-Mar-96	4.3 U	2.4 J	2 U	1.3 J	3.4 U
P-038S	1-May-96	4.3 U	1.2 J	2 U	2.8 U	3.4 U
P-038S	9-Apr-97	1 U	1 U	1 U	1 U	1 U
P-038S	8-Oct-97	1 U	1 U	1 U	1 U	1 U
P-038S	28-Apr-98	1 U	1 U	1 U	1 U	1 U
P-038S	15-Oct-98	1 U	2	1 U	1 U	1 U
P-038S	15-Apr-99	1 U	1 U	1 U	1 U	1 U
P-038S	27-Sep-99	1 U	1	1 U	1 U	1 U
P-038S	20-Apr-00	1 U	1 U	1 U	1 U	1 U
P-038S	21-Sep-00	1 U	1	1 U	1 U	1 U
P-038S	18-Apr-01	1 U	1 U	1 U	1 U	1 U
P-038S	18-Oct-01	1 U	6	1 U	1 U	1 U
P-038S	4-Apr-02	1 U	2	1 U	1 U	1 U
P-038S	11-Oct-02	1 U	1 U	1 U	1 U	1 U
P-038S	2-Apr-03	1 U	1 U	1 U	1 U	1 U
P-038S	2-Oct-03	1 U	1 U	1 U	1 U	1 U
P-038S	16-Oct-04	1 U	1 U	1 U	1 U	1 U

MPS = Media Protection Standard
U = Nondetect with detection limit given
J = Estimated value

Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-001S
Along Bulkhead

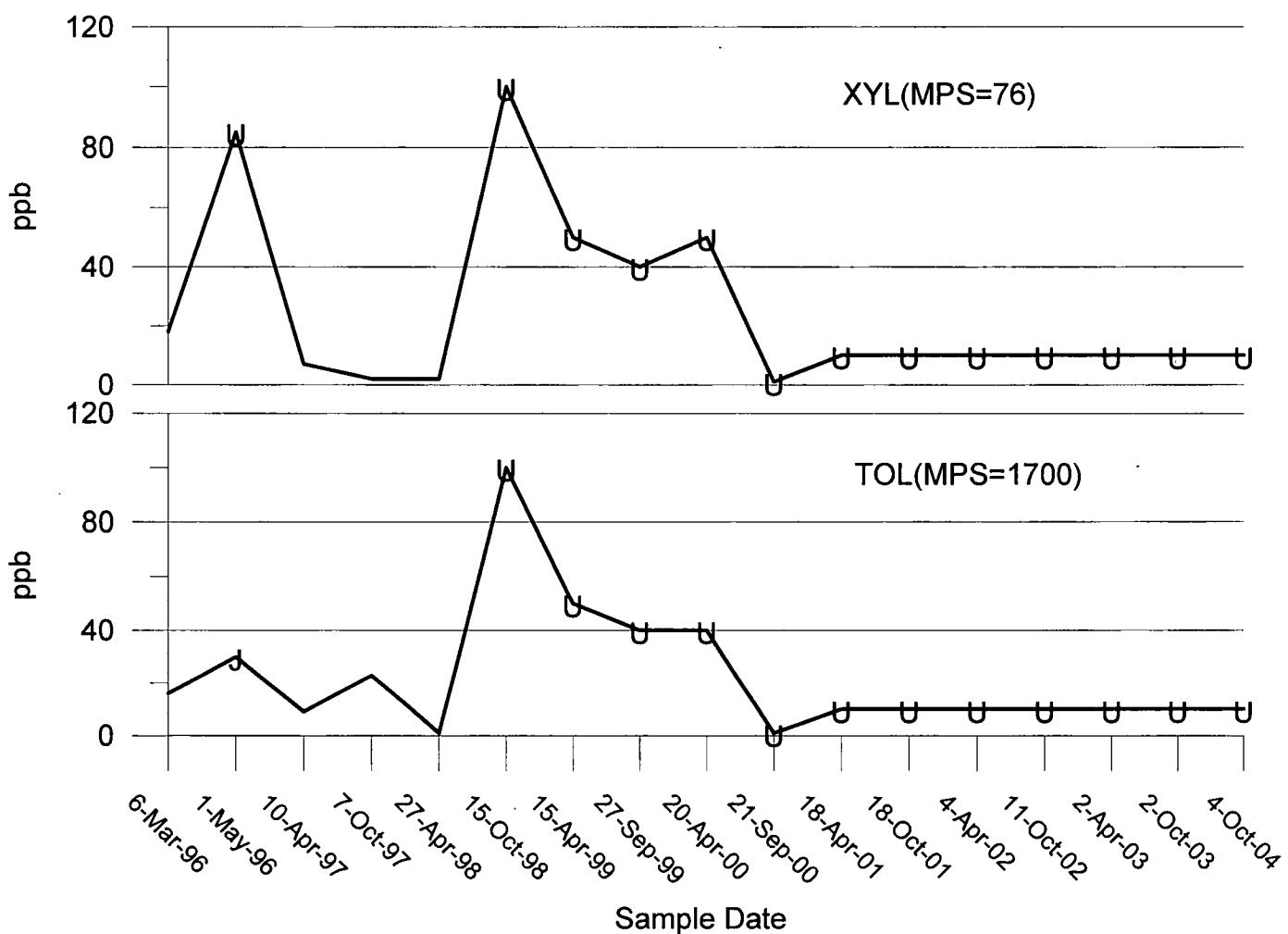
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-001S
Along Bulkhead

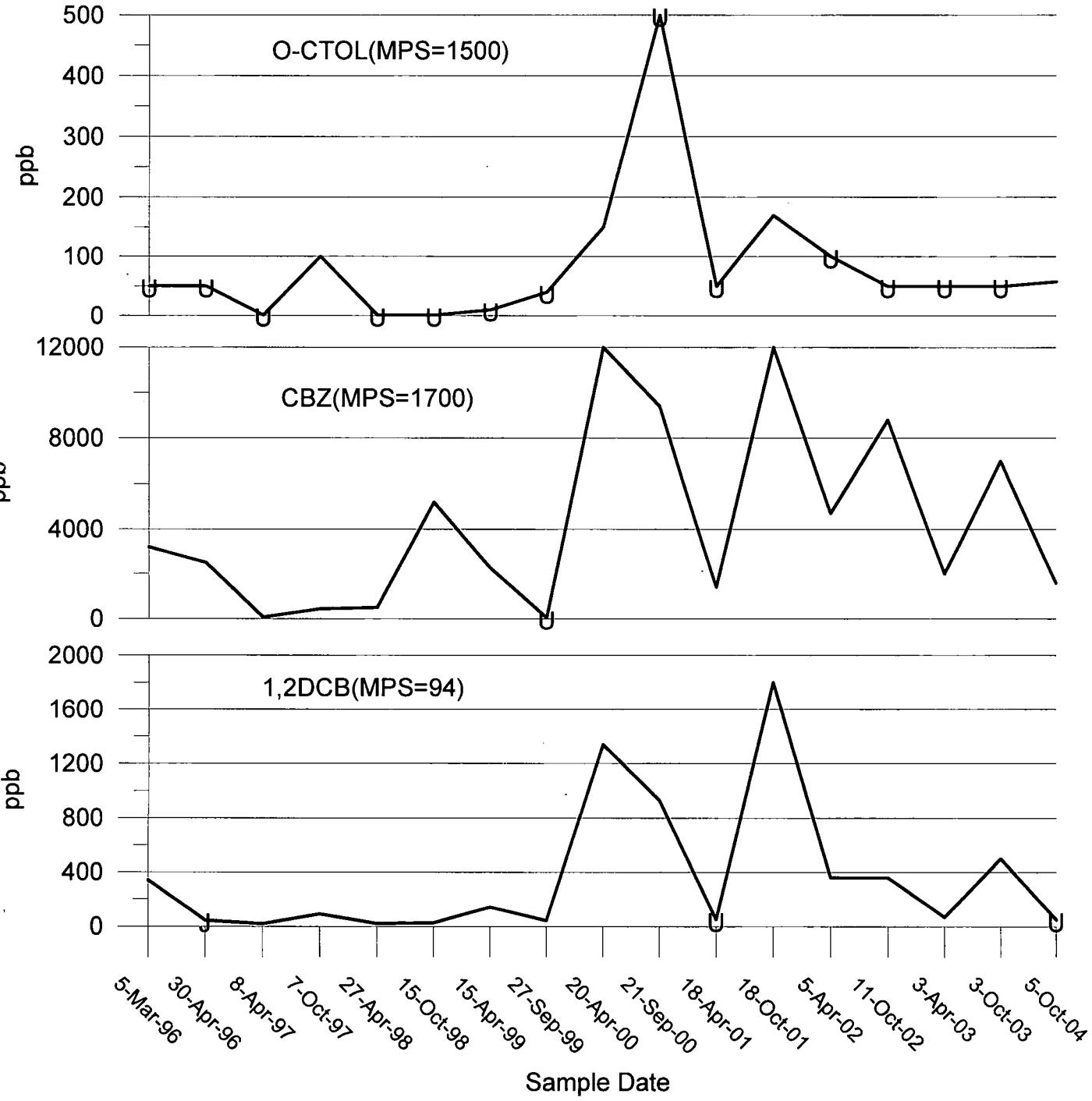
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-002S
Along Bulkhead

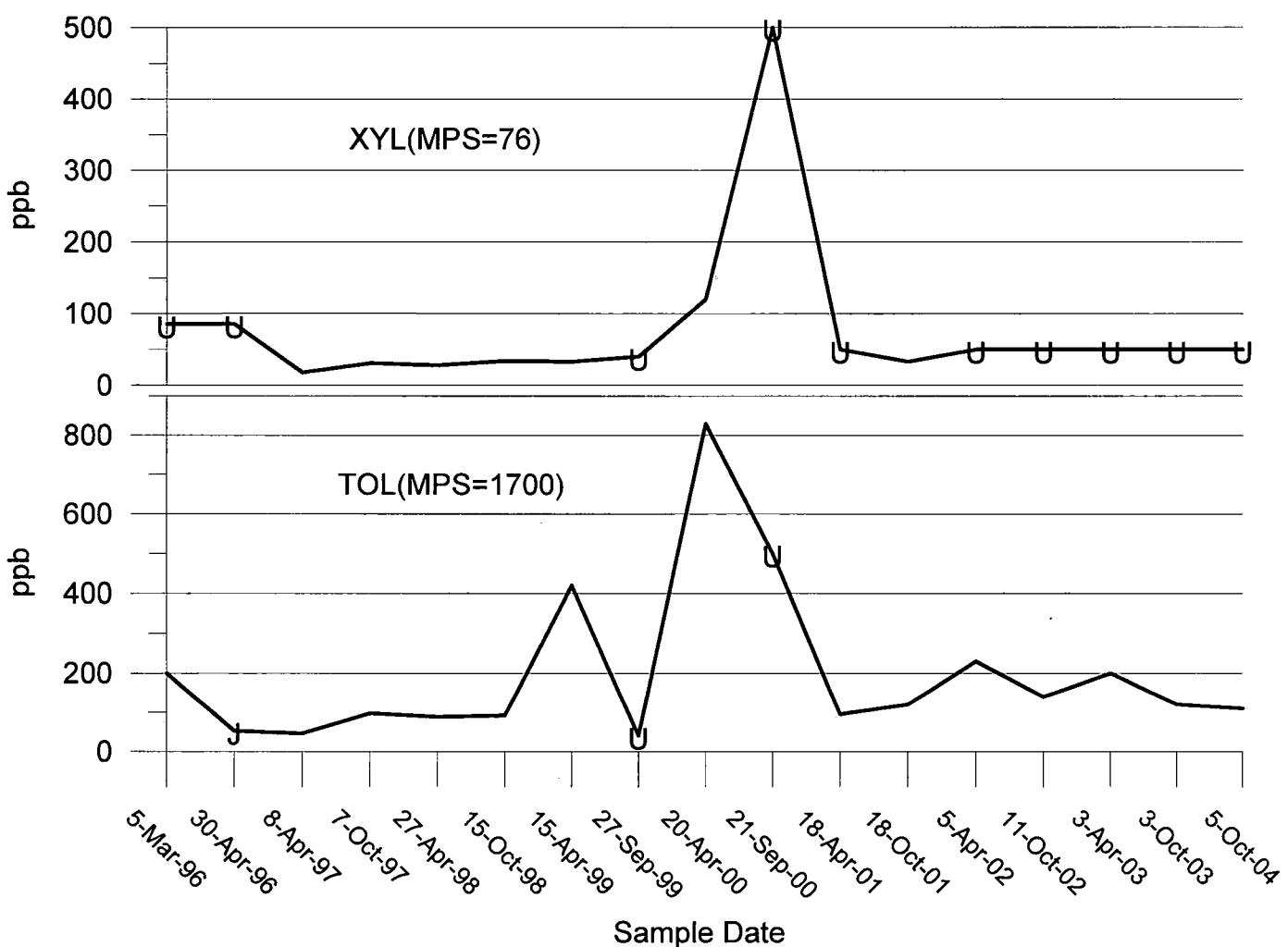
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well MW-002S
Along Bulkhead

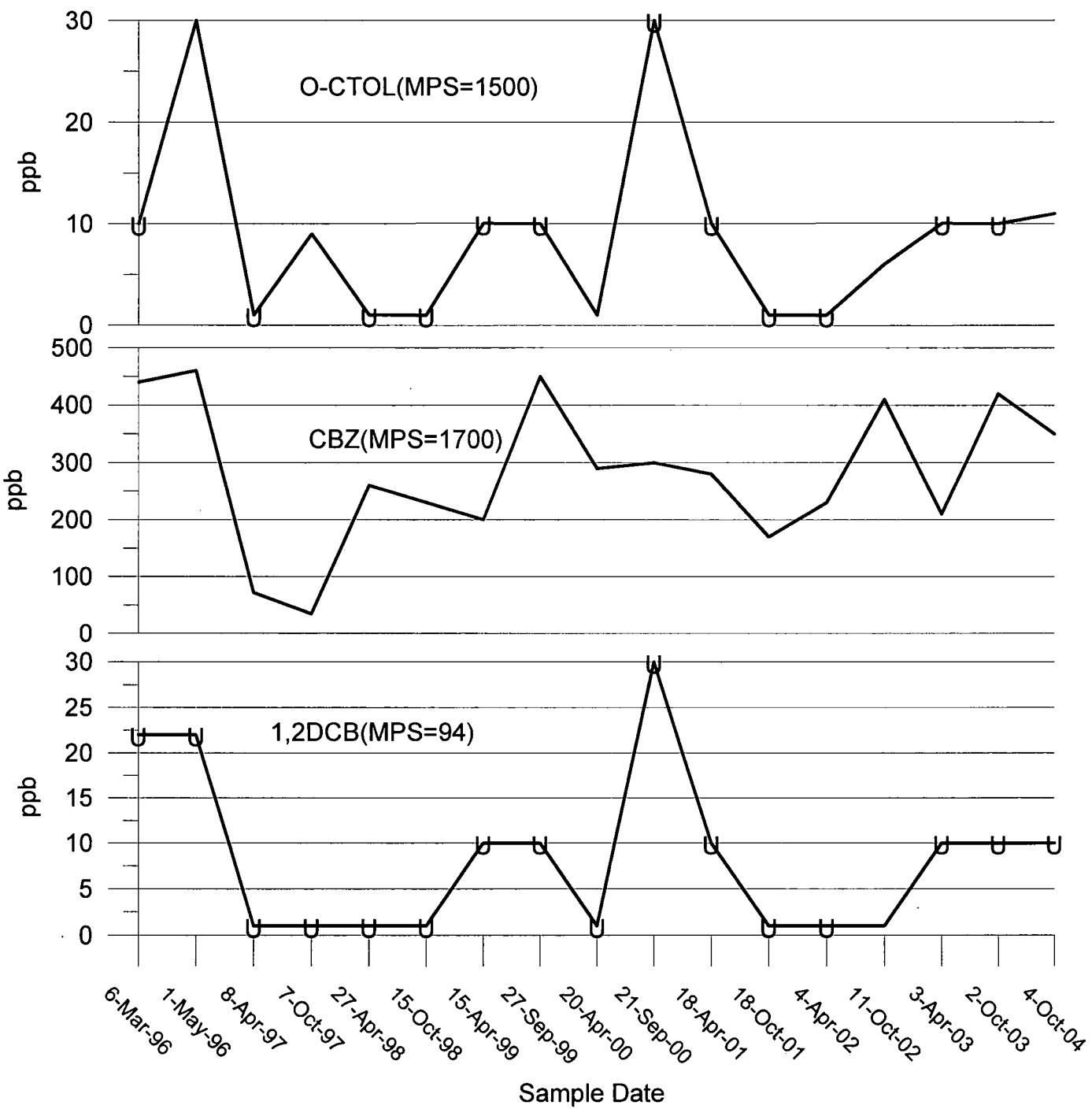
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-036S
Along Bulkhead

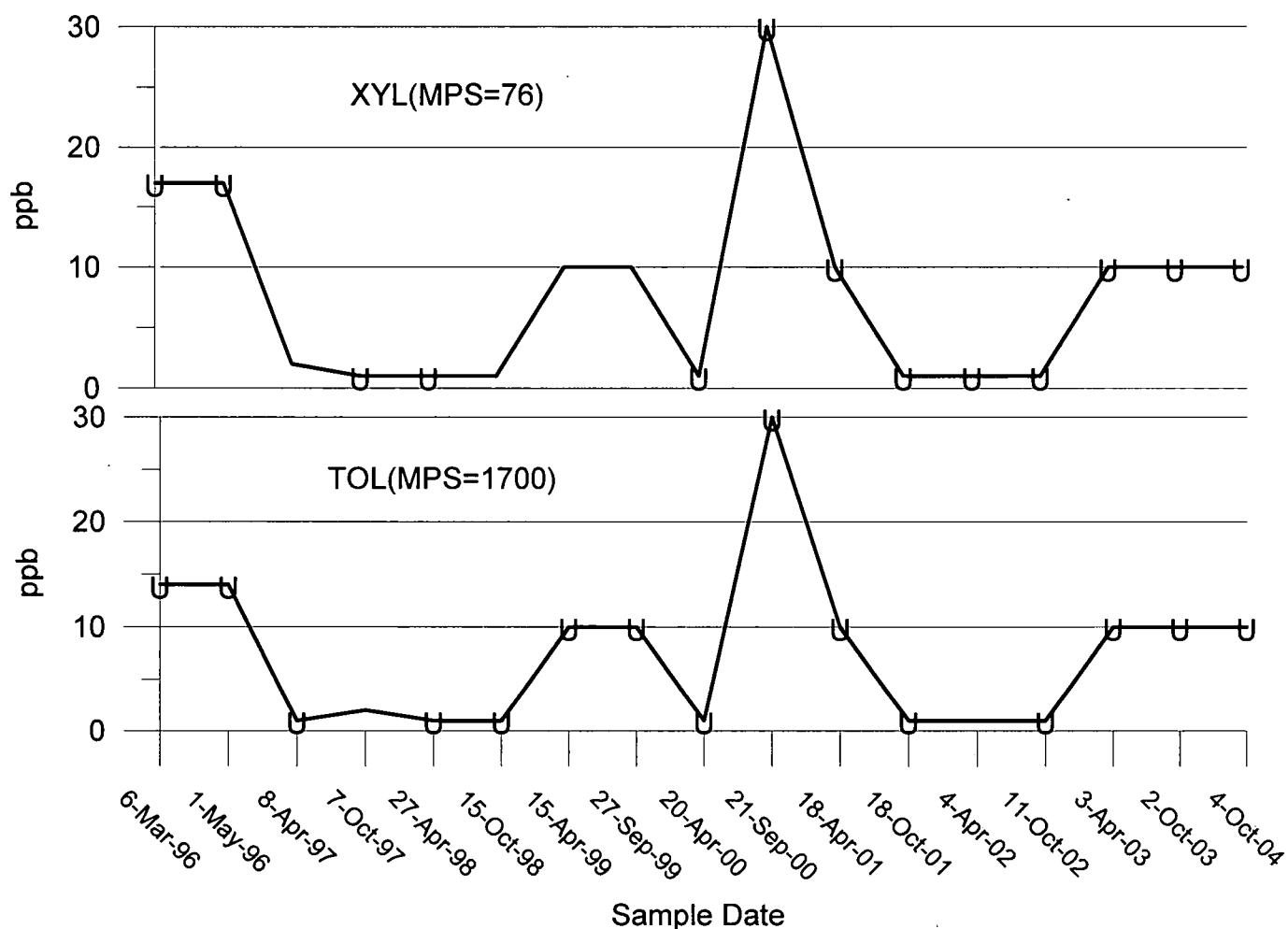
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-036S
Along Bulkhead

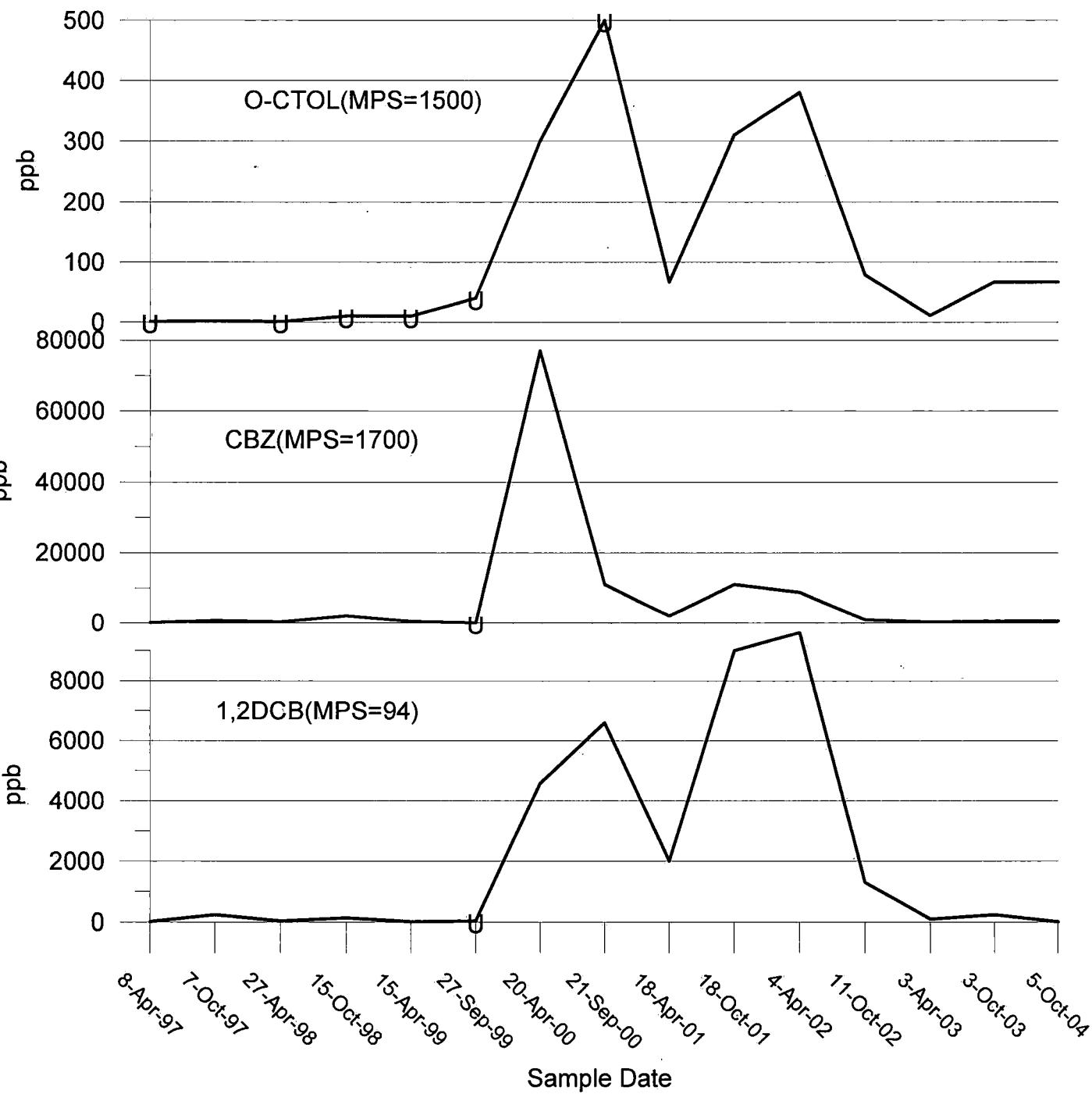
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-035S
Along Bulkhead

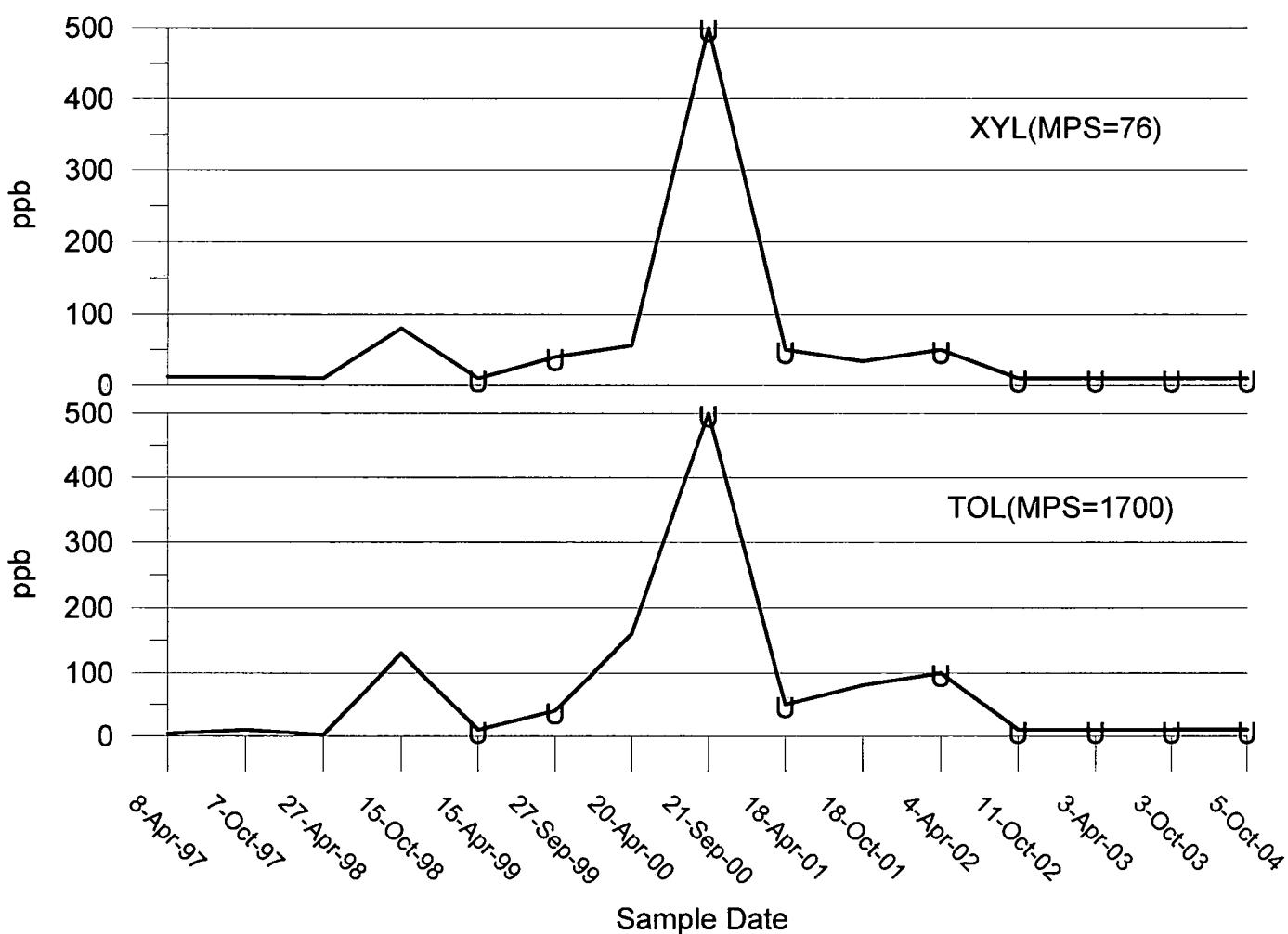
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-035S
Along Bulkhead

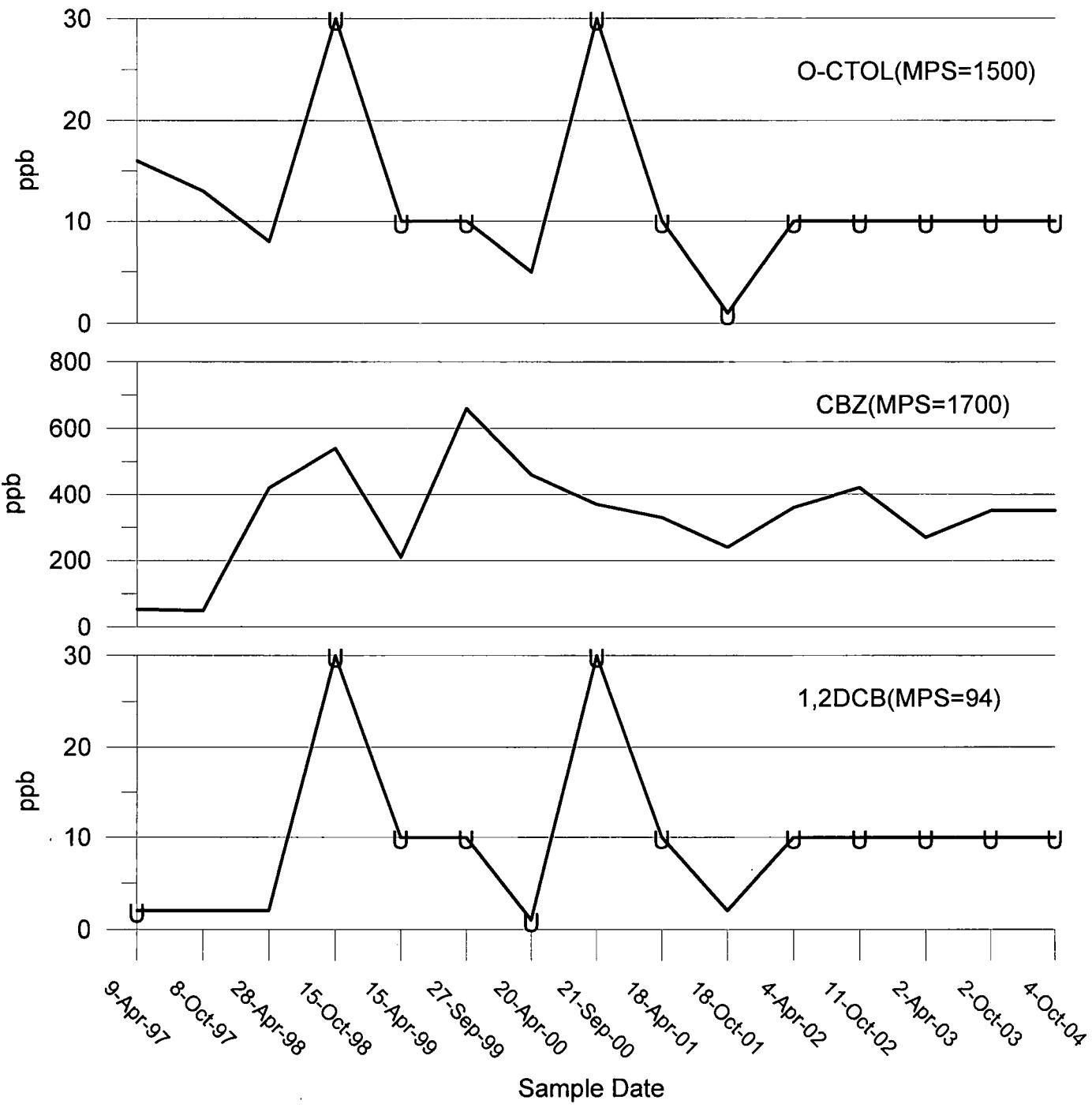
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-037S
Along Bulkhead

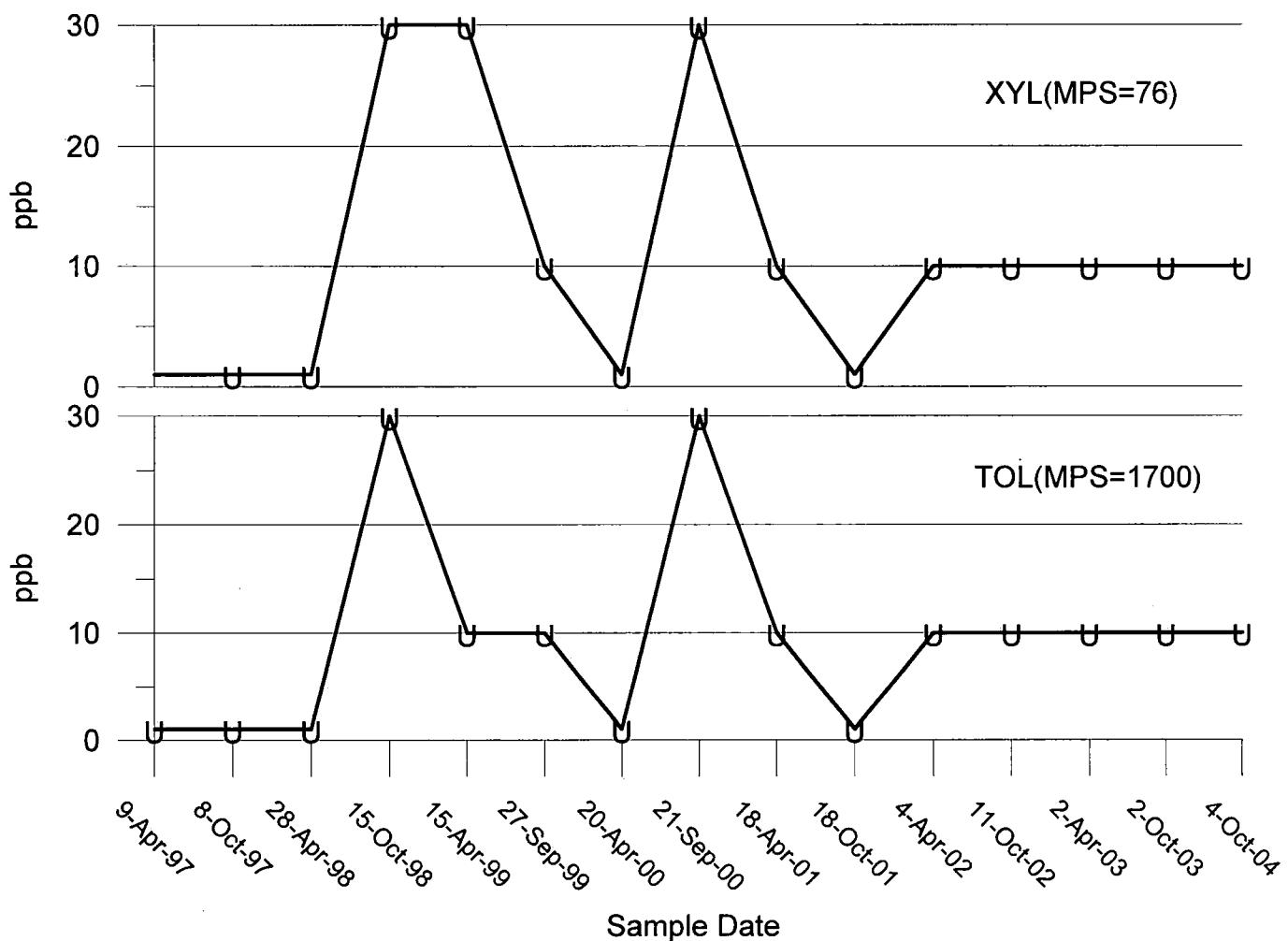
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-037S
Along Bulkhead

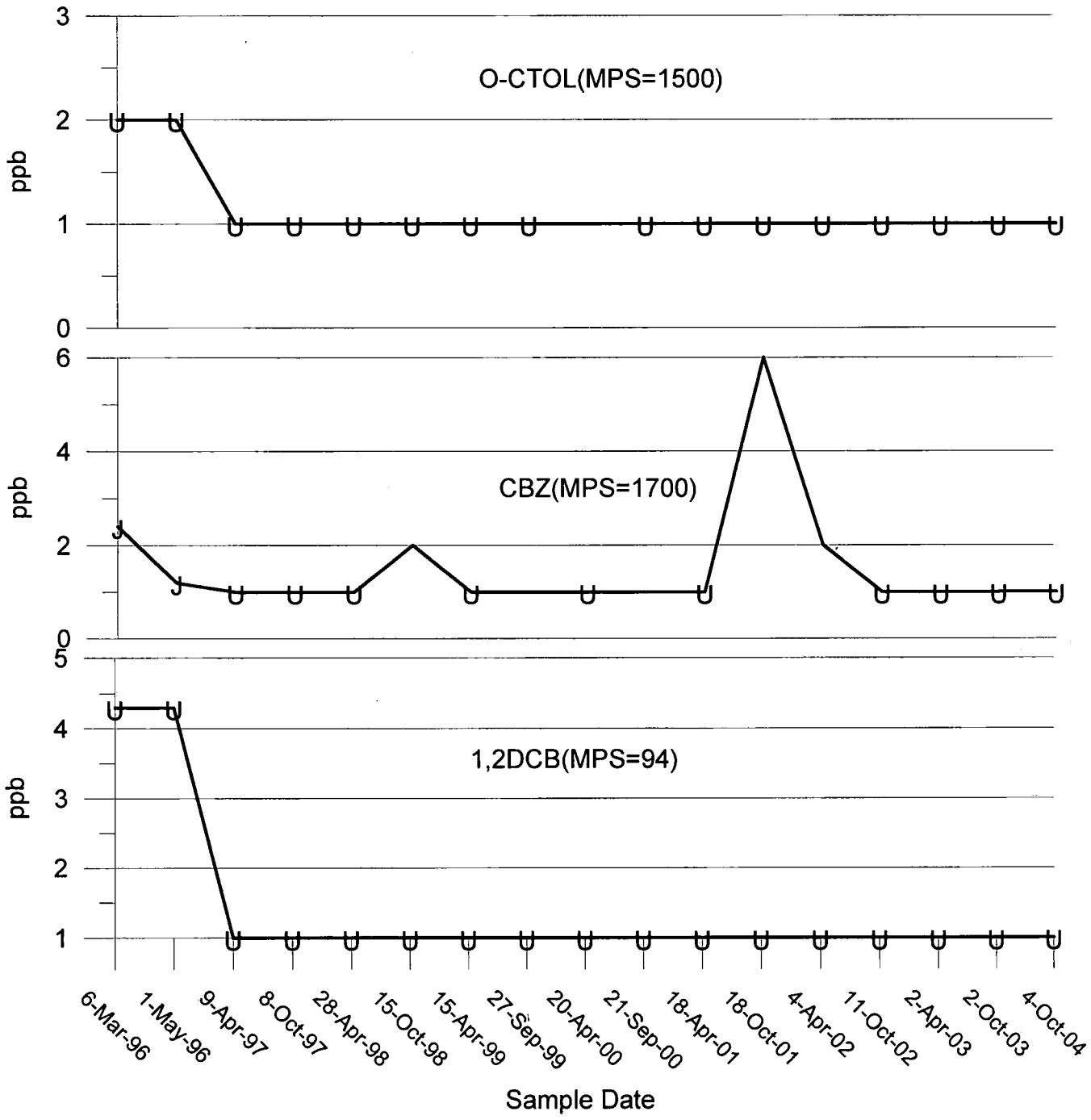
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-038S
Along Bulkhead

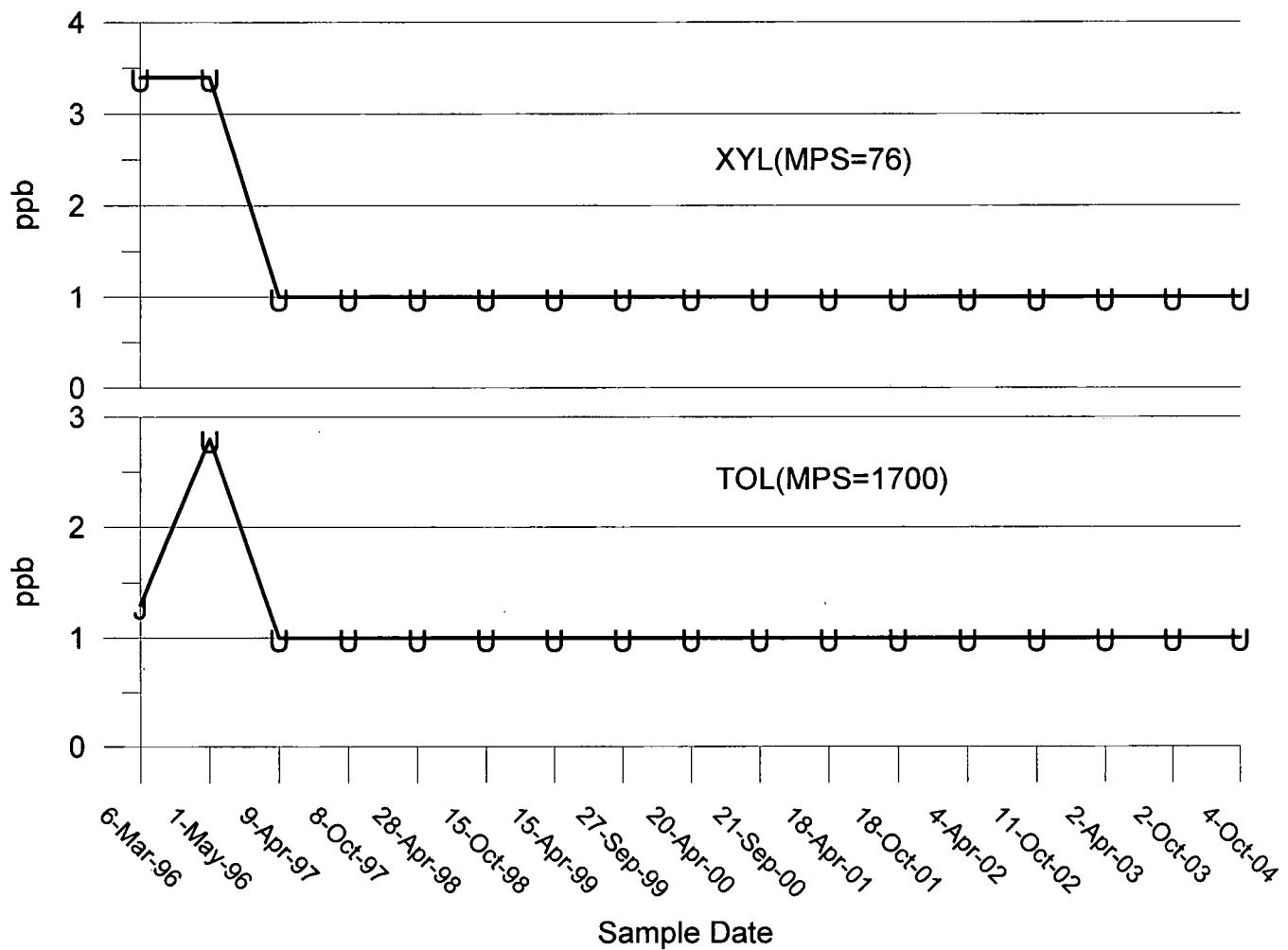
"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well P-038S
Along Bulkhead

"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



APPENDIX D
TIME-SERIES GRAPHS
FOR
IN-RIVER WELLS

Table 5
IN-RIVER WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

Well No.	Date Sampled	1,2-Dichloro-benzene	Chloro-benzene	o-Chloro-toluene	Toluene	Xylenes
MPS		94	1700	1500	1700	76
SW-110	6-Mar-96	54	1600	55	460	34 U
SW-110	2-May-96	63 J	1600	40 U	220	68 U
SW-110	10-Apr-97	23	110	1	62	8
SW-110	8-Oct-97	1 U	1 U	1 U	1 U	1 U
SW-110	27-Apr-98	21	1100	2	170	6
SW-110	15-Oct-98	100 U	440	100 U	100 U	100 U
SW-110	15-Apr-99	50 U	670	50 U	50 U	50 U
SW-110	27-Sep-99	40 U	2500	40 U	220	40 U
SW-110	20-Apr-00	47	20 U	91	380	20 U
SW-110	21-Sep-00	100 U	2000	100 U	820	100 U
SW-110	18-Apr-01	1 U	3	1 U	1 U	1 U
SW-110	18-Oct-01	1 U	2	1 U	1 U	1 U
SW-110	4-Apr-02	1 U	2	1 U	1 U	1 U
SW-110	11-Oct-02	1 U	5	1 U	1 U	1 U
SW-110	2-Apr-03	1 U	1 U	1 U	1 U	1 U
SW-110	2-Oct-03	1 U	1	1 U	1 U	1 U
SW-110	16-Oct-04	1 U	1 U	1 U	1 U	1 U
SW-120	5-Mar-96	4.3 U	63	2 U	2.8 U	3.4 U
SW-120	30-Apr-96	4.3 U	70	2 U	2.8 U	3.4 U
SW-120	8-Apr-97	1 U	43	1 U	1 U	1 U
SW-120	7-Oct-97	1	39	39	31	2
SW-120	27-Apr-98	1 U	54	1 U	1 U	1 U
SW-120	15-Oct-98	1 U	36	1 U	1 U	1 U
SW-120	15-Apr-99	10 U	92	10 U	10 U	10 U
SW-120	27-Sep-99	10 U	68	10 U	10 U	10 U
SW-120	20-Apr-00	1 U	67	1 U	1 U	1 U
SW-120	21-Sep-00	9100	1800	500 U	500 U	500 U
SW-120	18-Apr-01	1 U	58	1 U	1 U	1 U
SW-120	18-Oct-01	2	54	1 U	1 U	1 U
SW-120	5-Apr-02	1 U	39	1 U	1 U	1 U
SW-120	11-Oct-02	1 U	47	1 U	1 U	1 U
SW-120	2-Apr-03	1 U	45	1 U	1 U	1 U
SW-120	3-Oct-03	1 U	44	1 U	1 U	1 U
SW-120	17-Oct-04	1 U	48	1 U	1 U	1 U
SW-130	6-Mar-96	4.3 U	3 U	6.5	2.8 U	3.4 U
SW-130	1-May-96	4.3 U	3 U	12	2.8 U	3.4 U
SW-130	9-Apr-97	1 U	1	12	1 U	1 U
SW-130	7-Oct-97	1 U	1 U	2	1 U	1 U
SW-130	27-Apr-98	1 U	27	14	1 U	1 U
SW-130	15-Oct-98	1 U	1 U	1	1 U	1 U
SW-130	15-Apr-99	1 U	5	5	1 U	1 U
SW-130	27-Sep-99	1 U	1	2	1 U	1 U
SW-130	20-Apr-00	1	10	30	1 U	1
SW-130	21-Sep-00	5 U	5 U	5 U	5 U	5 U
SW-130	19-Apr-01	1 U	1 U	1 U	1 U	1 U
SW-130	18-Oct-01	1 U	12	1 U	1 U	1 U
SW-130	4-Apr-02	1 U	1 U	1 U	1 U	1 U
SW-130	11-Oct-02	1 U	1 U	1 U	1 U	1 U
SW-130	2-Apr-03	NA	NA	NA	NA	NA
SW-130	3-Oct-03	NA	NA	NA	NA	NA
SW-130	17-Oct-04	NA	NA	NA	NA	NA

MPS = Media Protection Standard

U = Nondetect with detection limit given

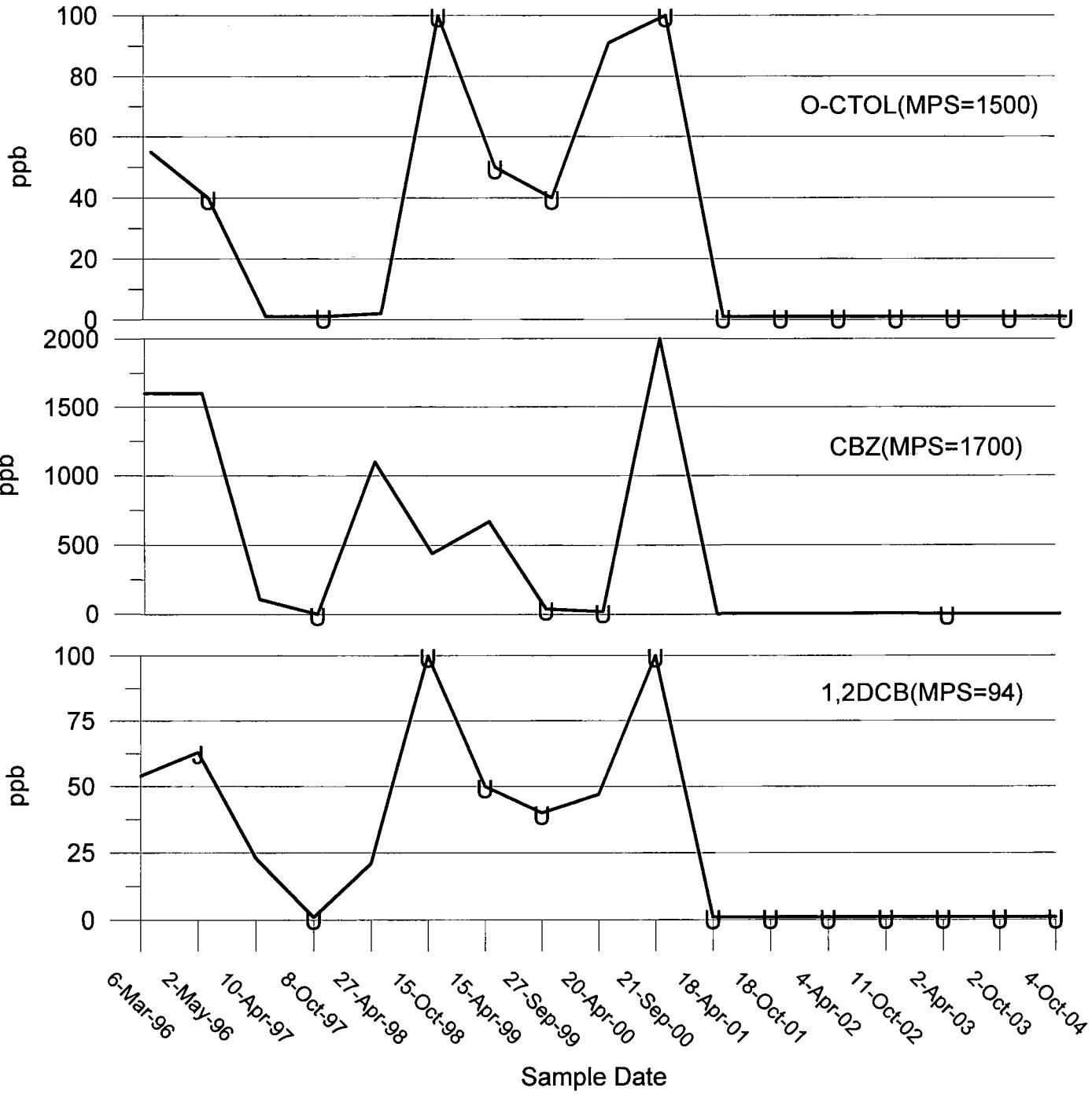
J = Estimated value

NA - Not available, since SW-130 was dropped from the program since it no longer was able to provide a sample due to blockage.

Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well SW-110
In-River Wells

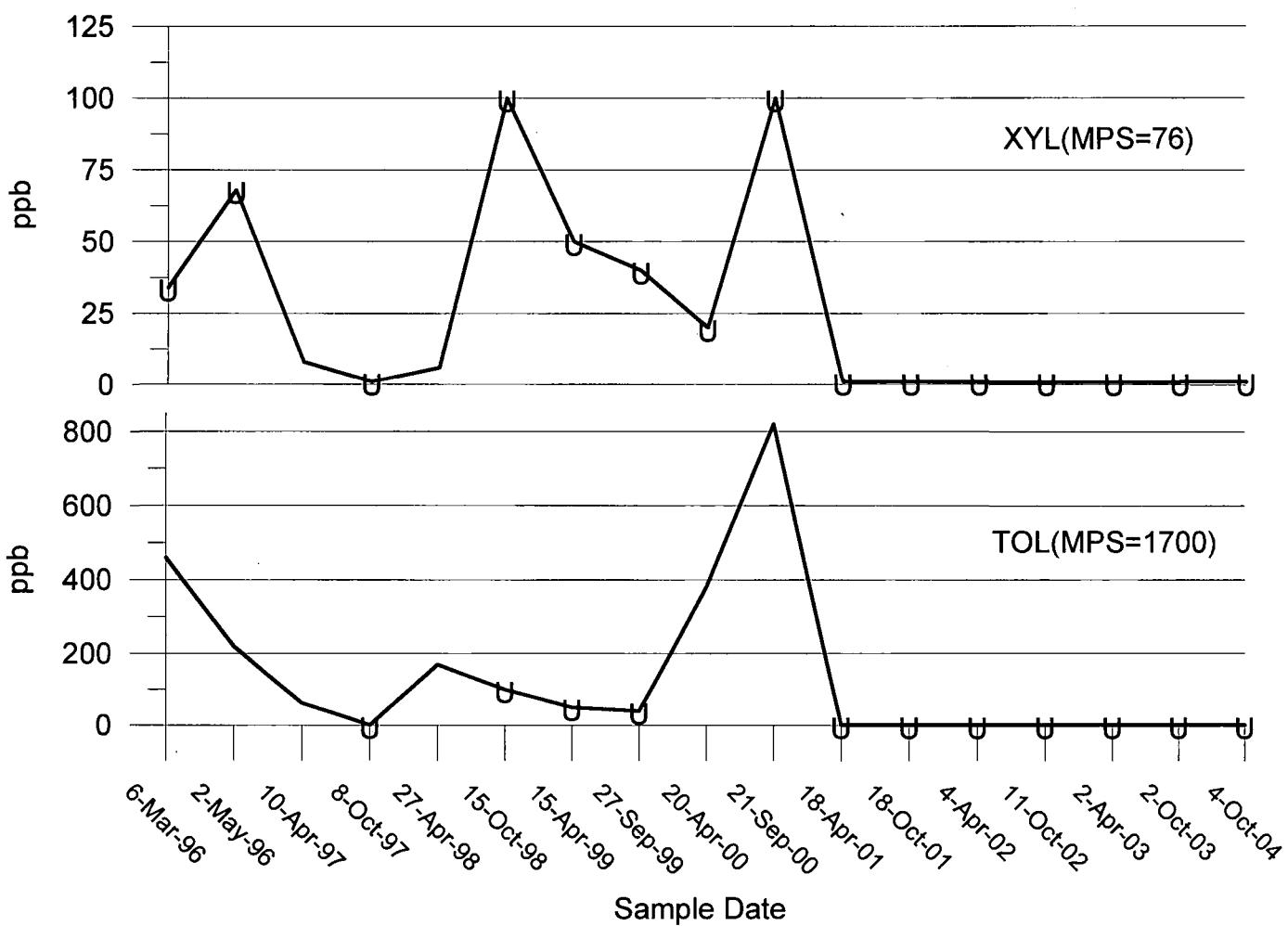
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well SW-110
In-River Well

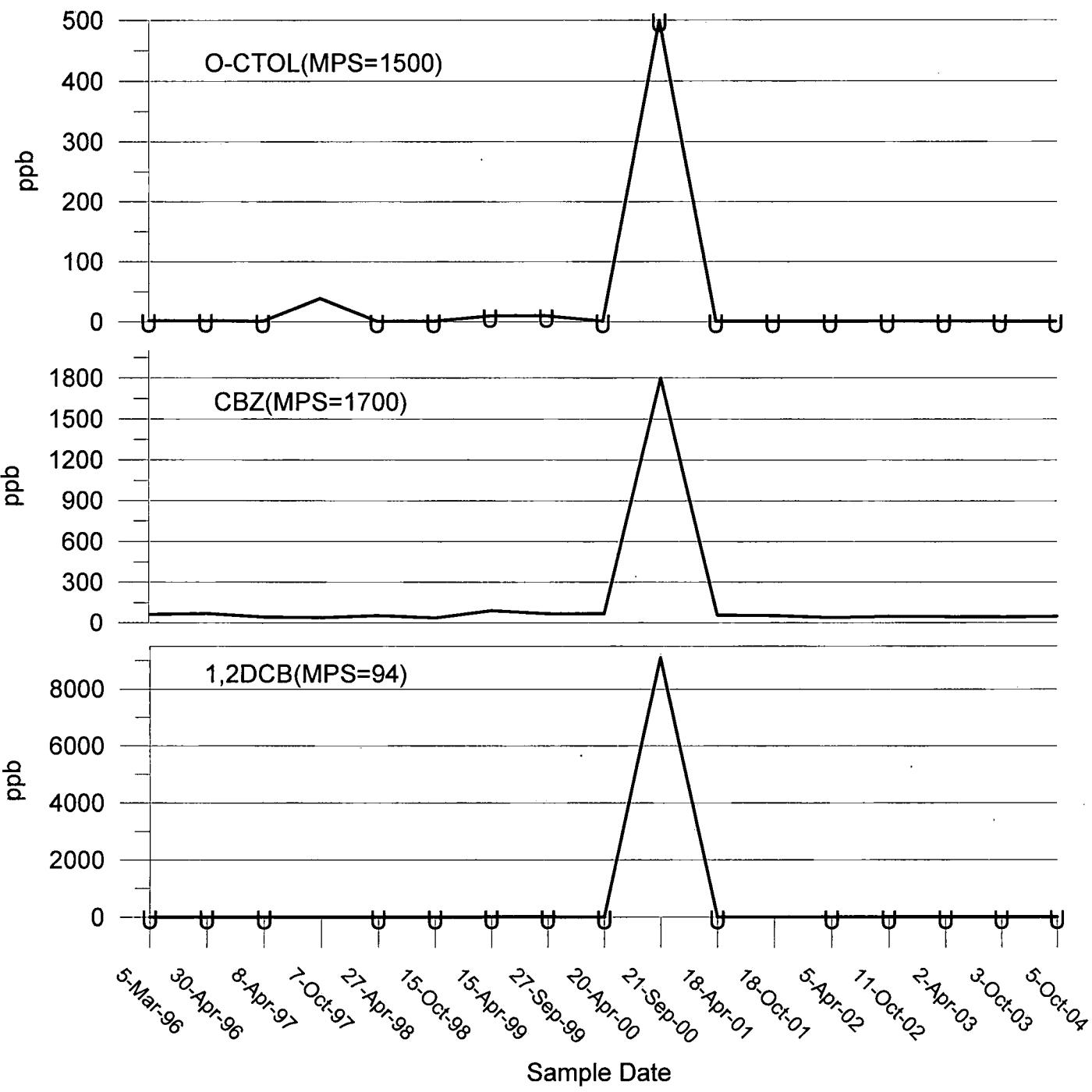
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well SW-120
In-River Well

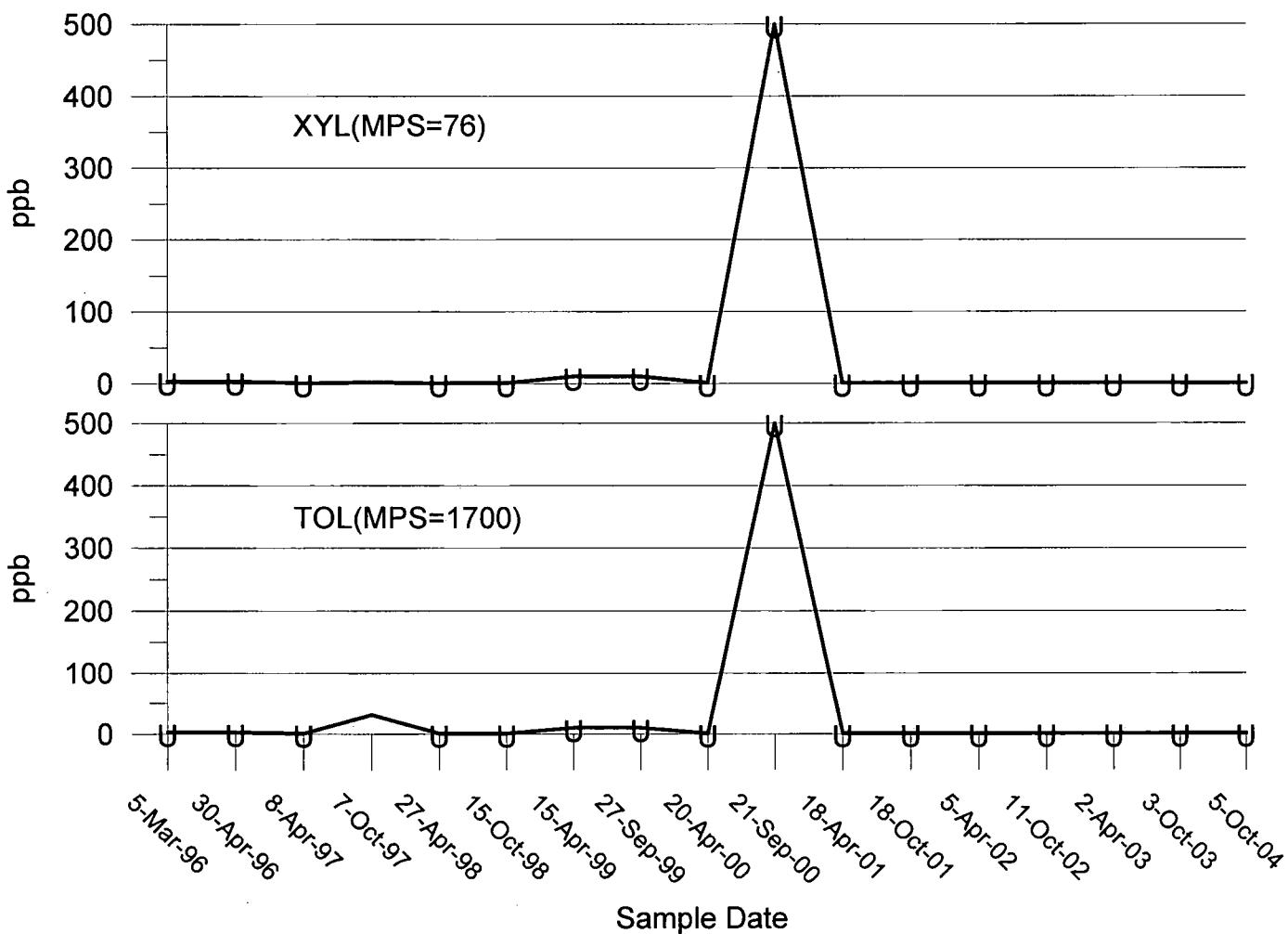
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"J"=Estimated Value
MPS=Media Protection Std.



Ciba Specialty Chemicals Corp
Cranston Rhode Island Facility
Time-Series Graph
Semiannual Monitoring

Well SW-120
In-River Well

"U"=Nondetect
"J"=Estimated Value
MPS=Media Protection Std.



APPENDIX E

CERTIFICATE OF ANALYSIS

R. I. ANALYTICAL

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Mr. Barry Cohen
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 10/05/2004
Date Reported: 10/20/2004
P.O. #: T0093353
Work Order #: 0410-15001

DESCRIPTION: CIBA GEIGY, MILL STREET MW'S (SAMPLED BY RIAL PERSONNEL)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 001

SAMPLE DESCRIPTION: SW-110**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.9		SU	EPA 150.1	10/04/2004	DD
TEMPERATURE (field)	65		F	EPA 170.1	10/04/2004	DD
SPECIFIC CONDUCTANCE (field)	410	1	µMHOS/CM	EPA 120.1	10/04/2004	DD
DISSOLVED OXYGEN (Field)	3.0	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds	{					
chloromethane	<10	10	ug/l	8260	10/16/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/16/2004	BAS
vinyl chloride	2	1	ug/l	8260	10/16/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/16/2004	BAS
chloroethane	<10	10	ug/l	8260	10/16/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/16/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
chloroform	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/16/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/16/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/16/2004	BAS
Bromoform	<1	1	ug/l	8260	10/16/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/16/2004	BAS
Benzene	<1	1	ug/l	8260	10/16/2004	BAS
toluene	<1	1	ug/l	8260	10/16/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/16/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/16/2004	BAS
acetone	<10	10	ug/l	8260	10/16/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/16/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/16/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/16/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/16/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/16/2004	BAS
Styrene	<1	1	ug/l	8260	10/16/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 10/05/2004

Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 001

SAMPLE DESCRIPTION: SW-110**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 11:20

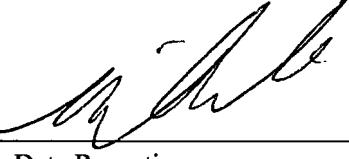
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
Surrogates			RANGE	8260	10/16/2004	BAS
Dibromofluoromethane	99		86-118%	8260	10/16/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/16/2004	BAS
Toluene-D8	96		88-110%	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Michael J. Kellie
Data Reporting

Sample # 002

SAMPLE DESCRIPTION: P-037S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 12:10

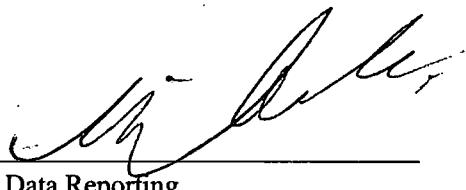
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	7.2		SU	EPA 150.1	10/04/2004	DD
TEMPERATURE (field)	64		F	EPA 170.1	10/04/2004	DD
SPECIFIC CONDUCTANCE (field)	690	1	µMhos/cm	EPA 120.1	10/04/2004	DD
DISSOLVED OXYGEN (Field)	2.0	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/16/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/16/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/16/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/16/2004	BAS
chloroethane	<100	100	ug/l	8260	10/16/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/16/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/16/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/16/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/16/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/16/2004	BAS
chloroform	<10	10	ug/l	8260	10/16/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/16/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/16/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/16/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/16/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/16/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/16/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/16/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/16/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/16/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/16/2004	BAS
Bromoform	<10	10	ug/l	8260	10/16/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/16/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/16/2004	BAS
Chlorobenzene	350	10	ug/l	8260	10/16/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/16/2004	BAS
Benzene	<10	10	ug/l	8260	10/16/2004	BAS
toluene	<10	10	ug/l	8260	10/16/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/16/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/16/2004	BAS
acetone	<100	100	ug/l	8260	10/16/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/16/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/16/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/16/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/16/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/16/2004	BAS
Styrene	<10	10	ug/l	8260	10/16/2004	BAS
o-chlorotoluene	<10	10	ug/l	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:

Data Reporting



Sample # 002

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 12:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<10	10	ug/l	8260	10/16/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/16/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/16/2004	BAS
Surrogates			RANGE	8260	10/16/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/16/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/16/2004	BAS
Toluene-D8	97		88-110%	8260	10/16/2004	BAS

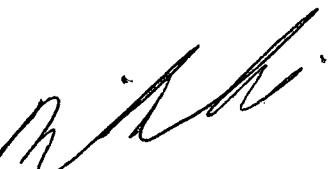
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:



Data Reporting

Sample # 003

SAMPLE DESCRIPTION: P-038S

SAMPLE TYPE: GRAB

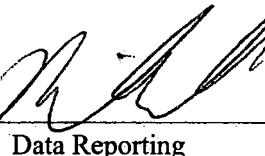
SAMPLE DATE/TIME: 10/04/2004 @ 10:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.6		SU	EPA 150.1	10/04/2004	DD
TEMPERATURE (field)	62		F	EPA 170.1	10/04/2004	DD
SPECIFIC CONDUCTANCE (field)	380	1	µMHOS/CM	EPA 120.1	10/04/2004	DD
DISSOLVED OXYGEN (Field)	1.9	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/16/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/16/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/16/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/16/2004	BAS
chloroethane	<10	10	ug/l	8260	10/16/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/16/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
chloroform	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/16/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/16/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/16/2004	BAS
Bromoform	<1	1	ug/l	8260	10/16/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/16/2004	BAS
Benzene	<1	1	ug/l	8260	10/16/2004	BAS
toluene	<1	1	ug/l	8260	10/16/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/16/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/16/2004	BAS
acetone	<10	10	ug/l	8260	10/16/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/16/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/16/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/16/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/16/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/16/2004	BAS
Styrene	<1	1	ug/l	8260	10/16/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
Date Received: 10/05/2004
Work Order #: 0410-15001

Approved by:



Data Reporting

Sample # 003

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 10:10

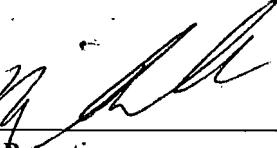
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
Surrogates			RANGE	8260	10/16/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/16/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/16/2004	BAS
Toluene-D8	95		88-110%	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 004

SAMPLE DESCRIPTION: PW-110 PUMP HOUSE

SAMPLE TYPE: GRAB

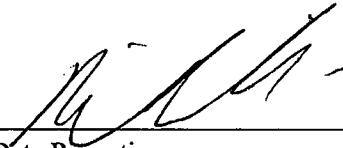
SAMPLE DATE/TIME: 10/04/2004 @ 10:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.7		SU	EPA 150.1	10/04/2004	JEC
TEMPERATURE (field)	64		F	EPA 170.1	10/04/2004	JEC
SPECIFIC CONDUCTANCE (field)	360	1	uMHOS/CM	EPA 120.1	10/04/2004	JEC
DISSOLVED OXYGEN (Field)	<1.0	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/16/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/16/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/16/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/16/2004	BAS
chloroethane	<10	10	ug/l	8260	10/16/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/16/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
chloroform	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/16/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/16/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/16/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/16/2004	BAS
Bromoform	<1	1	ug/l	8260	10/16/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/16/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/16/2004	BAS
Chlorobenzene	26	1	ug/l	8260	10/16/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/16/2004	BAS
Benzene	1	1	ug/l	8260	10/16/2004	BAS
toluene	<1	1	ug/l	8260	10/16/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/16/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/16/2004	BAS
acetone	<10	10	ug/l	8260	10/16/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/16/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/16/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/16/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/16/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/16/2004	BAS
Styrene	<1	1	ug/l	8260	10/16/2004	BAS
o-chlorotoluene	22	1	ug/l	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:

Data Reporting 

Sample # 004

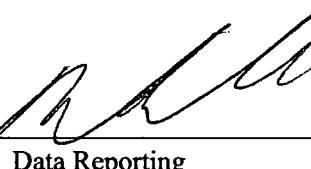
SAMPLE DESCRIPTION: PW-110 PUMP HOUSE**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 10:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	1	1	ug/l	8260	10/16/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/16/2004	BAS
Surrogates			RANGE	8260	10/16/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/16/2004	BAS
4-Bromofluorobenzene	93		86-115%	8260	10/16/2004	BAS
Toluene-D8	95		88-110%	8260	10/16/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:



Data Reporting

Sample # 005

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 10/04/2004 @ 14:40**

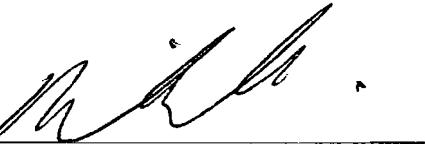
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	7.3		SU	EPA 150.1	10/04/2004	JEC
TEMPERATURE (field)	63		F	EPA 170.1	10/04/2004	JEC
SPECIFIC CONDUCTANCE (field)	830	1	uMHOS/CM	EPA 120.1	10/04/2004	JEC
DISSOLVED OXYGEN (Field)	<1.0	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/17/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/17/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/17/2004	BAS
chloroethane	<100	100	ug/l	8260	10/17/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
chloroform	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromoform	<10	10	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Chlorobenzene	350	10	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/17/2004	BAS
Benzene	32	10	ug/l	8260	10/17/2004	BAS
toluene	<10	10	ug/l	8260	10/17/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/17/2004	BAS
acetone	<100	100	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/17/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/17/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/17/2004	BAS
Styrene	<10	10	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	11	10	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


 Data Reporting

Sample # 005

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 14:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	97		88-110%	8260	10/17/2004	BAS

Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:

Data Reporting

Sample # 006

SAMPLE DESCRIPTION: MW-001S

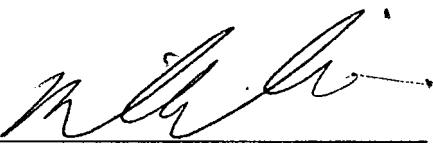
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 10:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	7.1		SU	EPA 150.1	10/04/2004	JEC
TEMPERATURE (field)	62		F	EPA 170.1	10/04/2004	JEC
SPECIFIC CONDUCTANCE (field)	1010	1	uMHOS/CM	EPA 120.1	10/04/2004	JEC
DISSOLVED OXYGEN (Field)	1.4	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/17/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/17/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/17/2004	BAS
chloroethane	<100	100	ug/l	8260	10/17/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
chloroform	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromoform	<10	10	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Chlorobenzene	1000	10	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/17/2004	BAS
Benzene	<10	10	ug/l	8260	10/17/2004	BAS
toluene	<10	10	ug/l	8260	10/17/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/17/2004	BAS
acetone	<100	100	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/17/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/17/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/17/2004	BAS
Styrene	<10	10	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<10	10	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by: 

Data Reporting

Sample # 006

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 10:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	99		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	91		86-115%	8260	10/17/2004	BAS
Toluene-D8	96		88-110%	8260	10/17/2004	BAS

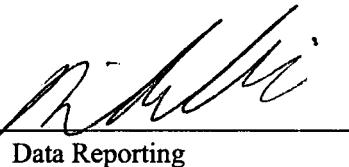
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:



Data Reporting

Sample # 007

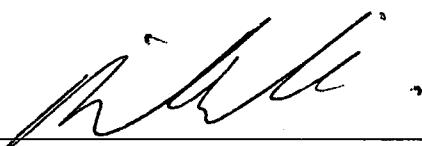
SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 10/04/2004 @ 13:00**

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.8		SU	EPA 150.1	10/04/2004	DD
TEMPERATURE (field)	66		F	EPA 170.1	10/04/2004	DD
SPECIFIC CONDUCTANCE (field)	400	1	µMHOS/CM	EPA 120.1	10/04/2004	DD
DISSOLVED OXYGEN (Field)	<1.0	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/17/2004	BAS
Styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


 Data Reporting

Sample # 007

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	101		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	100		88-110%	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 008

SAMPLE DESCRIPTION: MW-4S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 14:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.4		SU	EPA 150.1	10/04/2004	JEC
TEMPERATURE (field)	64		F	EPA 170.1	10/04/2004	JEC
SPECIFIC CONDUCTANCE (field)	380	1	uMHOS/CM	EPA 120.1	10/04/2004	JEC
DISSOLVED OXYGEN (Field)	2.6	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/17/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/17/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/17/2004	BAS
chloroethane	<100	100	ug/l	8260	10/17/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
chloroform	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromoform	<10	10	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Chlorobenzene	12	10	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/17/2004	BAS
Benzene	<10	10	ug/l	8260	10/17/2004	BAS
toluene	<10	10	ug/l	8260	10/17/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/17/2004	BAS
acetone	<100	100	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/17/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/17/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/17/2004	BAS
Styrene	<10	10	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	90	10	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 008

SAMPLE DESCRIPTION: MW-4S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 14:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	103		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/17/2004	BAS
Toluene-D8	98		88-110%	8260	10/17/2004	BAS

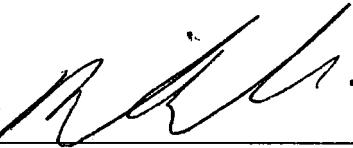
Method 8260: Increased detection limit due to limited sample volume.

R.I. Analytical Laboratories, Inc.

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Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

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Data Reporting

Sample # 009

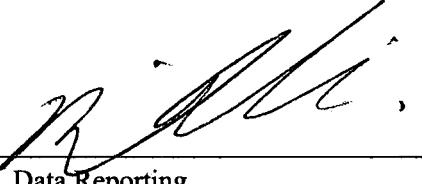
SAMPLE DESCRIPTION: PW-120 PUMP HOUSE**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.4		SU	EPA 150.1	10/05/2004	JEC
TEMPERATURE (field)	62		F	EPA 170.1	10/05/2004	JEC
SPECIFIC CONDUCTANCE (field)	430	1	µMHOS/CM	EPA 120.1	10/05/2004	JEC
DISSOLVED OXYGEN (Field)	1.0	1.0	mg/l	EPA 360.1	10/05/2004	JEC
Volatile Organic Compounds						
chloromethane	<500	500	ug/l	8260	10/17/2004	BAS
Bromomethane	<500	500	ug/l	8260	10/17/2004	BAS
vinyl chloride	98	50	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<500	500	ug/l	8260	10/17/2004	BAS
chloroethane	<500	500	ug/l	8260	10/17/2004	BAS
methylene chloride	<300	300	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<50	50	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
chloroform	<50	50	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<50	50	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<50	50	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<50	50	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<50	50	ug/l	8260	10/17/2004	BAS
Trichloroethylene	68	50	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<50	50	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<50	50	ug/l	8260	10/17/2004	BAS
Bromoform	<50	50	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	64	50	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<50	50	ug/l	8260	10/17/2004	BAS
Chlorobenzene	4800	50	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<100	100	ug/l	8260	10/17/2004	BAS
Benzene	<50	50	ug/l	8260	10/17/2004	BAS
toluene	65	50	ug/l	8260	10/17/2004	BAS
ethylbenzene	<50	50	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<50	50	ug/l	8260	10/17/2004	BAS
acetone	<500	500	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<300	300	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<500	500	ug/l	8260	10/17/2004	BAS
vinyl acetate	<2500	2500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<2500	2500	ug/l	8260	10/17/2004	BAS
2-hexanone	<2500	2500	ug/l	8260	10/17/2004	BAS
Styrene	<50	50	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	140	50	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


 Data Reporting

Sample # 009

SAMPLE DESCRIPTION: PW-120 PUMP HOUSE**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	6200	50	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<50	50	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<50	50	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	101		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	96		88-110%	8260	10/17/2004	BAS

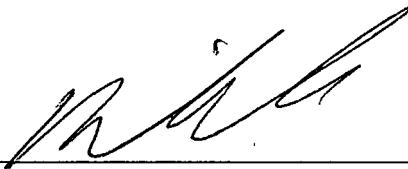
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 010

SAMPLE DESCRIPTION: SW-120

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/05/2004 @ 10:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	7.0		SU	EPA 150.1	10/05/2004	DD
TEMPERATURE (field)	60		F	EPA 170.1	10/05/2004	DD
SPECIFIC CONDUCTANCE (field)	240	1	µMHOS/CM	EPA 120.1	10/05/2004	DD
DISSOLVED OXYGEN (Field)	1.6	1.0	mg/l	EPA 360.1	10/05/2004	JEC
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	2	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	48	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/17/2004	BAS
Styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS

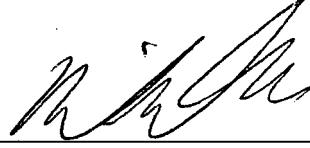
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 10/05/2004

Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 010

SAMPLE DESCRIPTION: SW-120**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:15

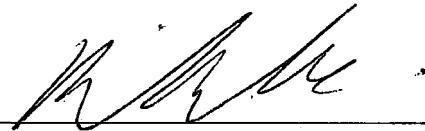
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	103		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	96		88-110%	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


 Data Reporting

Sample # 011

SAMPLE DESCRIPTION: PW-130 PUMP HOUSE**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.9		SU	EPA 150.1	10/04/2004	DD
TEMPERATURE (field)	64		F	EPA 170.1	10/04/2004	DD
SPECIFIC CONDUCTANCE (field)	430	1	µMhos/cm	EPA 120.1	10/04/2004	DD
DISSOLVED OXYGEN (Field)	2.2	1.0	mg/l	EPA 360.1	10/04/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/17/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/17/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/17/2004	BAS
chloroethane	<100	100	ug/l	8260	10/17/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
chloroform	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromoform	<10	10	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Chlorobenzene	250	10	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/17/2004	BAS
Benzene	<10	10	ug/l	8260	10/17/2004	BAS
toluene	17	10	ug/l	8260	10/17/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/17/2004	BAS
acetone	<100	100	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/17/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/17/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/17/2004	BAS
Styrene	<10	10	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	100	10	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 011

SAMPLE DESCRIPTION: PW-130 PUMP HOUSE

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	19	10	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	103		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/17/2004	BAS
Toluene-D8	97		88-110%	8260	10/17/2004	BAS

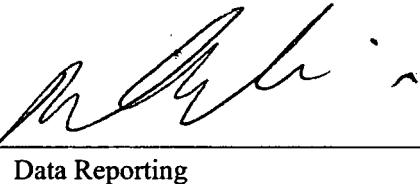
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:



Data Reporting

Sample # 012

SAMPLE DESCRIPTION: P-35S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	7.1		SU	EPA 150.1	10/05/2004	JEC
TEMPERATURE (field)	64		F	EPA 170.1	10/05/2004	JEC
SPECIFIC CONDUCTANCE (field)	600	1	uMHOS/CM	EPA 120.1	10/05/2004	JEC
DISSOLVED OXYGEN (Field)	<1.0	1.0	mg/l	EPA 360.1	10/05/2004	JEC
Volatile Organic Compounds						
chloromethane	<100	100	ug/l	8260	10/17/2004	BAS
Bromomethane	<100	100	ug/l	8260	10/17/2004	BAS
vinyl chloride	<10	10	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<100	100	ug/l	8260	10/17/2004	BAS
chloroethane	<100	100	ug/l	8260	10/17/2004	BAS
methylene chloride	<50	50	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
chloroform	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<10	10	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<10	10	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<10	10	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromoform	<10	10	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<10	10	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<10	10	ug/l	8260	10/17/2004	BAS
Chlorobenzene	200	10	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<20	20	ug/l	8260	10/17/2004	BAS
Benzene	18	10	ug/l	8260	10/17/2004	BAS
toluene	<10	10	ug/l	8260	10/17/2004	BAS
ethylbenzene	<10	10	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<10	10	ug/l	8260	10/17/2004	BAS
acetone	<100	100	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<50	50	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<100	100	ug/l	8260	10/17/2004	BAS
vinyl acetate	<500	500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<500	500	ug/l	8260	10/17/2004	BAS
2-hexanone	<500	500	ug/l	8260	10/17/2004	BAS
Styrene	<10	10	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	130	10	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 012

SAMPLE DESCRIPTION: P-35S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	18	10	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<10	10	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	102		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	97		88-110%	8260	10/17/2004	BAS

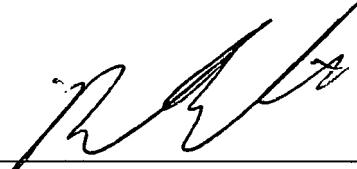
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 013

SAMPLE DESCRIPTION: MW-2S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/05/2004 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.8		SU	EPA 150.1	10/05/2004	JEC
TEMPERATURE (field)	64		F	EPA 170.1	10/05/2004	JEC
SPECIFIC CONDUCTANCE (field)	420	1	uMHOS/CM	EPA 120.1	10/05/2004	JEC
DISSOLVED OXYGEN (Field)	3.3	1.0	mg/l	EPA 360.1	10/05/2004	JEC
Volatile Organic Compounds						
chloromethane	<500	500	ug/l	8260	10/17/2004	BAS
Bromomethane	<500	500	ug/l	8260	10/17/2004	BAS
vinyl chloride	110	50	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<500	500	ug/l	8260	10/17/2004	BAS
chloroethane	<500	500	ug/l	8260	10/17/2004	BAS
methylene chloride	<300	300	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<50	50	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
chloroform	<50	50	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<50	50	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<50	50	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<50	50	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<50	50	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<50	50	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<50	50	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<50	50	ug/l	8260	10/17/2004	BAS
Bromoform	<50	50	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<50	50	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<50	50	ug/l	8260	10/17/2004	BAS
Chlorobenzene	1600	50	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<100	100	ug/l	8260	10/17/2004	BAS
Benzene	<50	50	ug/l	8260	10/17/2004	BAS
toluene	110	50	ug/l	8260	10/17/2004	BAS
ethylbenzene	<50	50	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<50	50	ug/l	8260	10/17/2004	BAS
acetone	<500	500	ug/l	8260	10/17/2004	BAS
carbon disulfide	<300	300	ug/l	8260	10/17/2004	BAS
-butanone(MEK)	<500	500	ug/l	8260	10/17/2004	BAS
vinyl acetate	<2500	2500	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<2500	2500	ug/l	8260	10/17/2004	BAS
2-hexanone	<2500	2500	ug/l	8260	10/17/2004	BAS
Styrene	<50	50	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	58	50	ug/l	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


 Data Reporting

Sample # 013

SAMPLE DESCRIPTION: MW-2S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<50	50	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<50	50	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<50	50	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	92		86-115%	8260	10/17/2004	BAS
Toluene-D8	97		88-110%	8260	10/17/2004	BAS

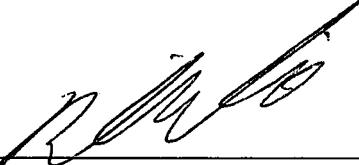
Method 8260: Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 014

SAMPLE DESCRIPTION: MW-21S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/05/2004 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH (field)	6.4		SU	EPA 150.1	10/05/2004	JEC
TEMPERATURE (field)	63		F	EPA 170.1	10/05/2004	JEC
SPECIFIC CONDUCTANCE (field)	240	1	uMHOS/CM	EPA 120.1	10/05/2004	JEC
DISSOLVED OXYGEN (Field)	2.0	1.0	mg/l	EPA 360.1	10/05/2004	JEC
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/18/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/18/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/18/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/18/2004	BAS
chloroethane	<10	10	ug/l	8260	10/18/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/18/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/18/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/18/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/18/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/18/2004	BAS
chloroform	<1	1	ug/l	8260	10/18/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/18/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/18/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/18/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/18/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/18/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/18/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/18/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/18/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/18/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/18/2004	BAS
Bromoform	<1	1	ug/l	8260	10/18/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/18/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/18/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/18/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/18/2004	BAS
Benzene	<1	1	ug/l	8260	10/18/2004	BAS
toluene	<1	1	ug/l	8260	10/18/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/18/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/18/2004	BAS
acetone	<10	10	ug/l	8260	10/18/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/18/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/18/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/18/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/18/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/18/2004	BAS
Styrene	<1	1	ug/l	8260	10/18/2004	BAS
o-chlorotoluene	170	1	ug/l	8260	10/18/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
Date Received: 10/05/2004
Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 014

SAMPLE DESCRIPTION: MW-21S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/18/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/18/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/18/2004	BAS
Surrogates			RANGE	8260	10/18/2004	BAS
Dibromofluoromethane	100		86-118%	8260	10/18/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/18/2004	BAS
Toluene-D8	96		88-110%	8260	10/18/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 015

SAMPLE DESCRIPTION: TRIP BLANK

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
β -hexanone	<50	50	ug/l	8260	10/17/2004	BAS
Styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates		RANGE		8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 10/05/2004

Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 015

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Dibromofluoromethane	103		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	96		88-110%	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 016

SAMPLE DESCRIPTION: TRIP BLANK

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/05/2004 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	.10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
hexanone	<50	50	ug/l	8260	10/17/2004	BAS
styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates		RANGE		8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 10/05/2004

Work Order #: 0410-15001

Approved by:

Data Reporting



Sample # 016

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Dibromofluoromethane	103		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	95		86-115%	8260	10/17/2004	BAS
Toluene-D8	96		88-110%	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 017

SAMPLE DESCRIPTION: EQUIPMENT BLANK

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/04/2004 @ 10:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
2-hexanone	<50	50	ug/l	8260	10/17/2004	BAS
Styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates		RANGE		8260	10/17/2004	BAS

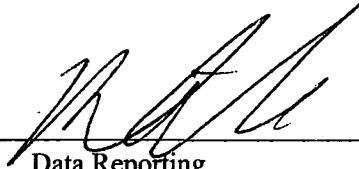
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 10/05/2004

Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 017

SAMPLE DESCRIPTION: EQUIPMENT BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/04/2004 @ 10:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Dibromofluoromethane	104		86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	94		86-115%	8260	10/17/2004	BAS
Toluene-D8	95		88-110%	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 10/05/2004
 Work Order #: 0410-15001

Approved by:

Data Reporting

Sample # 018

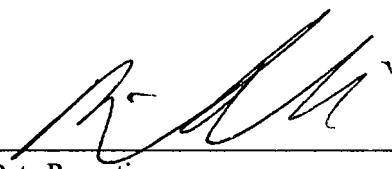
SAMPLE DESCRIPTION: EQUIPMENT BLANK**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 10/05/2004 @ 10:02**

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Volatile Organic Compounds						
chloromethane	<10	10	ug/l	8260	10/17/2004	BAS
Bromomethane	<10	10	ug/l	8260	10/17/2004	BAS
vinyl chloride	<1	1	ug/l	8260	10/17/2004	BAS
dichlorodifluoromethane	<10	10	ug/l	8260	10/17/2004	BAS
chloroethane	<10	10	ug/l	8260	10/17/2004	BAS
methylene chloride	<5	5	ug/l	8260	10/17/2004	BAS
trichlorofluoromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,2-Dichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
chloroform	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
1,1,1-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
carbon tetrachloride	<1	1	ug/l	8260	10/17/2004	BAS
Bromodichloromethane	<1	1	ug/l	8260	10/17/2004	BAS
1,2-dichloropropane	<1	1	ug/l	8260	10/17/2004	BAS
cis-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
Trichloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
trans-1,3-Dichloropropylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2-Trichloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Dibromochloromethane	<1	1	ug/l	8260	10/17/2004	BAS
Bromoform	<1	1	ug/l	8260	10/17/2004	BAS
Tetrachloroethylene	<1	1	ug/l	8260	10/17/2004	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	8260	10/17/2004	BAS
Chlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
2-chloroethyl vinyl ether	<2	2	ug/l	8260	10/17/2004	BAS
Benzene	<1	1	ug/l	8260	10/17/2004	BAS
toluene	<1	1	ug/l	8260	10/17/2004	BAS
ethylbenzene	<1	1	ug/l	8260	10/17/2004	BAS
xylenes(Total)	<1	1	ug/l	8260	10/17/2004	BAS
acetone	<10	10	ug/l	8260	10/17/2004	BAS
Carbon disulfide	<5	5	ug/l	8260	10/17/2004	BAS
2-butanone(MEK)	<10	10	ug/l	8260	10/17/2004	BAS
vinyl acetate	<50	50	ug/l	8260	10/17/2004	BAS
4-methyl-2-pentanone(MIBK)	<50	50	ug/l	8260	10/17/2004	BAS
hexanone	<50	50	ug/l	8260	10/17/2004	BAS
styrene	<1	1	ug/l	8260	10/17/2004	BAS
o-chlorotoluene	<1	1	ug/l	8260	10/17/2004	BAS
1,2-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,3-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
1,4-Dichlorobenzene	<1	1	ug/l	8260	10/17/2004	BAS
Surrogates			RANGE	8260	10/17/2004	BAS

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
Date Received: 10/05/2004
Work Order #: 0410-15001

Approved by:


Data Reporting

Sample # 018

SAMPLE DESCRIPTION: EQUIPMENT BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 10/05/2004 @ 10:02

PARAMETER	SAMPLE RESULTS	DET.	LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Dibromofluoromethane	104			86-118%	8260	10/17/2004	BAS
4-Bromofluorobenzene	92			86-115%	8260	10/17/2004	BAS
Toluene-D8	96			88-110%	8260	10/17/2004	BAS

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Date: 10/16/04 @ 2134

W.O. # 0410-15001

COMPOUND

CONCENTRATION UNITS:

ug/l

Dichlorodifluoromethane	<10
Chloromethane	<10
Vinyl Chloride	<1
Bromomethane	<10
Chloroethane	<10
Trichlorofluoromethane	<1
1,1-Dichloroethene	<1
Methylene Chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
Chloroform	<1
1,1,1-Trichloroethane	<1
Carbon Tetrachloride	<1
Benzene	<1
1,2-Dichloroethane	<1
Trichloroethylene	<1
1,2-Dichloropropane	<1
Bromodichloromethane	<1
Toluene	<1
1,1,2-Trichloroethane	<1
Tetrachloroethylene	<1
Dibromochloromethane	<1
Chlorobenzene	<1
Ethylbenzene	<1
Xylenes (total)	<1
Bromoform	<1

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALClient: CIBA SPECIALTY CHEMICALS CORP.Date: 10/16/04 @ 2134W.O.#: 0410-15001

CONCENTRATION UNITS:

COMPOUND

ug/l

1,1,2,2-Tetrachloroethane	<1
o-Chlorotoluene	<1
1,3-Dichlorobenzene	<1
1,4-Dichlorobenzene	<1
1,2-Dichlorobenzene	<1
Carbon disulfide	<5
Acetone	<10
2-chloroethyl vinyl ether	<2
2-Butanone (MEK)	<10
4-Methyl-2-pentanone (MIBK)	<50
2-Hexanone	<50
Stryene	<1
cis-1,3-Dichloropropene	<1
trans-1,3-Dichloropropene	<1
Vinyl Acetate	<50
Dibromofluoromethane	100
1,2-Dichloroethane-d4	101
Toluene-d8	97
4-Bromofluorobenzene	95

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICALClient: CIBA SPECIALTY CHEMICALS CORP.Date: 10/17/04 @ 914W.O. # 0410-15001

COMPOUND

CONCENTRATION UNITS:

ug/l

Dichlorodifluoromethane	<10
Chloromethane	<10
Vinyl Chloride	<1
Bromomethane	<10
Chloroethane	<10
Trichlorofluoromethane	<1
1,1-Dichloroethene	<1
Methylene Chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
Chloroform	<1
1,1,1-Trichloroethane	<1
Carbon Tetrachloride	<1
Benzene	<1
1,2-Dichloroethane	<1
Trichloroethylene	<1
1,2-Dichloropropane	<1
Bromodichloromethane	<1
Toluene	<1
1,1,2-Trichloroethane	<1
Tetrachloroethylene	<1
Dibromochloromethane	<1
Chlorobenzene	<1
Ethylbenzene	<1
Xylenes (total)	<1
Bromoform	<1

VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Date: 10/17/04 @ 914

W.O.#: 0410-15001

COMPOUND

CONCENTRATION UNITS:

ug/l

1,1,2,2-Tetrachloroethane	<1
o-Chlorotoluene	<1
1,3-Dichlorobenzene	<1
1,4-Dichlorobenzene	<1
1,2-Dichlorobenzene	<1
Carbon disulfide	<5
Acetone	<10
2-chloroethyl vinyl ether	<2
2-Butanone (MEK)	<10
4-Methyl-2-pentanone (MIBK)	<50
2-Hexanone	<50
Stryene	<1
cis-1,3-Dichloropropene	<1
trans-1,3-Dichloropropene	<1
Vinyl Acetate	<50
Dibromofluoromethane	99
1,2-Dichloroethane-d4	101
Toluene-d8	95
4-Bromofluorobenzene	94

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICALClient: CIBA SPECIALTY CHEMICALS CORP.Date: 10/17/04 @ 557W.O. # 0410-15001

COMPOUND	SPIKE ADDED ug/L	AMOUNT DETECTED ug/L	% RECOVERY
Dichlorodifluoromethane	50	34	68
Chloromethane	50	42	84
Vinyl Chloride	50	45	90
Bromomethane	50	32	64
Chloroethane	50	48	96
Trichlorofluoromethane	50	48	96
1,1-Dichloroethene	50	40	80
Methylene Chloride	50	41	82
trans-1,2-Dichloroethene	50	41	82
1,1-Dichloroethane	50	42	84
Chloroform	50	42	84
1,1,1-Trichloroethane	50	42	84
Carbon Tetrachloride	50	41	82
Benzene	50	41	82
1,2-Dichloroethane	50	42	84
Trichloroethylene	50	42	84
1,2-Dichloropropane	50	43	86
Bromodichloromethane	50	42	84
Toluene	50	42	84
1,1,2-Trichloroethane	50	42	84
Tetrachloroethylene	50	41	82
Dibromochloromethane	50	42	84
Chlorobenzene	50	41	82
Ethylbenzene	50	42	84
Xylenes (total)	150	123	82
Bromoform	50	40	80

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICALClient: CIBA SPECIALTY CHEMICALS CORP.Date: 10/17/04 @ 557W.O. # 0410-15001

COMPOUND	SPIKE ADDED ug/L	AMOUNT DETECTED ug/L	% RECOVERY
1,1,2,2-Tetrachloroethane	50	41	82
o-Chlorotoluene	50	41	82
1,3-Dichlorobenzene	50	41	82
1,4-Dichlorobenzene	50	41	82
1,2-Dichlorobenzene	50	42	84
Carbon disulfide	50	42	84
Acetone	50	49	98
2-chloroethyl vinyl ether	50	44	88
2-Butanone (MEK)	50	46	92
4-Methyl-2-pentanone (MIBK)	50	45	90
2-Hexanone	50	46	92
Stryene	50	42	84
cis-1,3-Dichloropropene	50	42	84
Benzene	50	42	84
Vinyl Acetate	50	50	100
Dibromofluoromethane			102
1,2-Dichloroethane-d4			100
Toluene-d8			102
4-Bromofluorobenzene			100

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Date: 10/17/04 @ 1834

W.O. # 0410-15001

COMPOUND	SPIKE ADDED ug/L	AMOUNT DETECTED ug/L	% RECOVERY
Dichlorodifluoromethane	50	58	116
Chloromethane	50	54	108
Vinyl Chloride	50	58	116
Bromomethane	50	41	82
Chloroethane	50	54	108
Trichlorofluoromethane	50	53	106
1,1-Dichloroethene	50	41	82
Methylene Chloride	50	46	92
trans-1,2-Dichloroethene	50	47	94
1,1-Dichloroethane	50	48	96
Chloroform	50	49	98
1,1,1-Trichloroethane	50	50	100
Carbon Tetrachloride	50	48	96
Benzene	50	47	94
1,2-Dichloroethane	50	51	102
Trichloroethylene	50	48	96
1,2-Dichloropropane	50	48	96
Bromodichloromethane	50	48	96
Toluene	50	47	94
1,1,2-Trichloroethane	50	50	100
Tetrachloroethylene	50	46	92
Dibromochloromethane	50	49	98
Chlorobenzene	50	47	94
Ethylbenzene	50	48	96
Xylenes (total)	150	146	97
Bromoform	50	53	106

VOLATILE ORGANICS LCS DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Date: 10/17/04 @ 1834

W.O. # 0410-15001

COMPOUND	SPIKE ADDED ug/L	AMOUNT DETECTED ug/L	% RECOVERY
1,1,2,2-Tetrachloroethane	50	57	114
o-Chlorotoluene	50	49	98
1,3-Dichlorobenzene	50	47	94
1,4-Dichlorobenzene	50	46	92
1,2-Dichlorobenzene	50	48	96
Carbon disulfide	50	49	98
Acetone	100	87	87
2-chloroethyl vinyl ether	50	54	108
2-Butanone (MEK)	100	126	126
4-Methyl-2-pentanone (MIBK)	100	125	125
2-Hexanone	100	142	142
Stryene	50	49	98
cis-1,3-Dichloropropene	50	46	92
trans-1,3-Dichloropropene	50	48	96
Vinyl Acetate	50	61	122
Dibromofluoromethane			103
1,2-Dichloroethane-d4			100
Toluene-d8			100
4-Bromofluorobenzene			103

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Duplicate Sample #

0410-15001-008

W.O. # 0410-15001

COMPOUND	SAMPLE RESULT	DUPPLICATE SAMPLE RESULT	REPORTED MEAN	REPORTED VALUE	RPD
	ug/L	ug/L	ug/L	ug/L	
Dichlorodifluoromethane	<100	<100	<100	<100	0
Chloromethane	<100	<100	<100	<100	0
Vinyl Chloride	<10	<10	<10	<10	0
Bromomethane	<100	<100	<100	<100	0
Chloroethane	<100	<100	<100	<100	0
Trichlorofluoromethane	<10	<10	<10	<10	0
1,1-Dichloroethene	<10	<10	<10	<10	0
Methylene Chloride	<50	<50	<50	<50	0
trans-1,2-Dichloroethene	<10	<10	<10	<10	0
1,1-Dichloroethane	<10	<10	<10	<10	0
Chloroform	<10	<10	<10	<10	0
1,1,1-Trichloroethane	<10	<10	<10	<10	0
Carbon Tetrachloride	<10	<10	<10	<10	0
Benzene	<10	<10	<10	<10	0
1,2-Dichloroethane	<10	<10	<10	<10	0
Trichloroethylene	<10	<10	<10	<10	0
1,2-Dichloropropane	<10	<10	<10	<10	0
Bromodichloromethane	<10	<10	<10	<10	0
Toluene	<10	<10	<10	<10	0
1,1,2-Trichloroethane	<10	<10	<10	<10	0
Tetrachloroethylene	<10	<10	<10	<10	0
Dibromochloromethane	<10	<10	<10	<10	0
Chlorobenzene	12.5	11.9	12.2	12	5
Ethylbenzene	<10	<10	<10	<10	0
Xylenes (total)	<10	<10	<10	<10	0
Bromoform	<10	<10	<10	<10	0

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Duplicate Sample # 0410-15001-008

W.O. # 0410-15001

COMPOUND	SAMPLE RESULT	DUPLICATE SAMPLE RESULT	MEAN	REPORTED VALUE	RPD
	ug/L	ug/L	ug/L	ug/L	
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	0
o-Chlorotoluene	89.5	90.3	89.9	90	1
1,3-Dichlorobenzene	<10	<10	<10	<10	0
1,4-Dichlorobenzene	<10	<10	<10	<10	0
1,2-Dichlorobenzene	<10	<10	<10	<10	0
Carbon disulfide	<50	<50	<50	<50	0
Acetone	<100	<100	<100	<100	0
2-chloroethyl vinyl ether	<20	<20	<20	<20	0
2-Butanone (MEK)	<100	<100	<100	<100	0
4-Methyl-2-pentanone (MIBK)	<500	<500	<500	<500	0
2-Hexanone	<500	<500	<500	<500	0
Stryene	<10	<10	<10	<10	0
cis-1,3-Dichloropropene	<10	<10	<10	<10	0
trans-1,3-Dichloropropene	<10	<10	<10	<10	0
Vinyl Acetate	<500	<500	<500	<500	0
Dibromofluoromethane	103	101			
1,2-Dichloroethane-d4	102	100			
Toluene-d8	98	95			
4-Bromofluorobenzene	94	96			

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Duplicate Sample # 0410-15001-014

W.O. # 0410-15001

COMPOUND	SAMPLE RESULT	DUPLICATE SAMPLE RESULT	REPORTED MEAN	REPORTED VALUE	RPD
	ug/L	ug/L	ug/L	ug/L	
Dichlorodifluoromethane	<10	<10	<10	<10	0
Chloromethane	<10	<10	<10	<10	0
Vinyl Chloride	<1	<1	<1	<1	0
Bromomethane	<10	<10	<10	<10	0
Chloroethane	<10	<10	<10	<10	0
Trichlorofluoromethane	<1	<1	<1	<1	0
1,1-Dichloroethene	<1	<1	<1	<1	0
Methylene Chloride	<5	<5	<5	<5	0
trans-1,2-Dichloroethene	<1	<1	<1	<1	0
1,1-Dichloroethane	<1	<1	<1	<1	0
Chloroform	<1	<1	<1	<1	0
1,1,1-Trichloroethane	<1	<1	<1	<1	0
Carbon Tetrachloride	<1	<1	<1	<1	0
Benzene	<1	<1	<1	<1	0
1,2-Dichloroethane	<1	<1	<1	<1	0
Trichloroethylene	<1	<1	<1	<1	0
1,2-Dichloropropane	<1	<1	<1	<1	0
Bromodichloromethane	<1	<1	<1	<1	0
Toluene	<1	<1	<1	<1	0
1,1,2-Trichloroethane	<1	<1	<1	<1	0
Tetrachloroethylene	<1	<1	<1	<1	0
Dibromochloromethane	<1	<1	<1	<1	0
Chlorobenzene	<1	<1	<1	<1	0
Ethylbenzene	<1	<1	<1	<1	0
Xylenes (total)	<1	<1	<1	<1	0
Bromoform	<1	<1	<1	<1	0

VOLATILE ORGANICS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Duplicate Sample # 0410-15001-014

Client: CIBA SPECIALTY CHEMICALS CORP.

W.O. # 0410-15001

COMPOUND	SAMPLE RESULT	DUPLICATE SAMPLE RESULT	MEAN	REPORTED VALUE	RPD
	ug/L	ug/L	ug/L	ug/L	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	0
o-Chlorotoluene	156	182	169	170	15
1,3-Dichlorobenzene	<1	<1	<1	<1	0
1,4-Dichlorobenzene	<1	<1	<1	<1	0
1,2-Dichlorobenzene	<1	<1	<1	<1	0
Carbon disulfide	<5	<5	<5	<5	0
Acetone	<10	<10	<10	<10	0
2-chloroethyl vinyl ether	<2	<2	<2	<2	0
2-Butanone (MEK)	<10	<10	<10	<10	0
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	0
2-Hexanone	<50	<50	<50	<50	0
Stryene	<1	<1	<1	<1	0
cis-1,3-Dichloropropene	<1	<1	<1	<1	0
trans-1,3-Dichloropropene	<1	<1	<1	<1	0
Vinyl Acetate	<50	<50	<50	<50	0
Dibromofluoromethane	100	103			
1,2-Dichloroethane-d4	101	100			
Toluene-d8	96	96			
4-Bromofluorobenzene	95	93			

VOLATILE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SHEET

Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Matrix Spike Sample # 0410-15001-008

W.O. # 0410-15001

COMPOUND	SAMPLE CONC. ug/L	SPIKE CONC. ug/L	MS CONC. ug/L	MS % REC.	MSD CONC. ug/L	MSD % REC.	RPD
Dichlorodifluoromethane	<100	500	300	60	300	60	0
Chloromethane	<100	500	380	76	380	76	0
Vinyl Chloride	<10	500	420	84	400	80	5
Bromomethane	<100	500	190	38	250	50	27
Chloroethane	<100	500	460	92	440	88	4
Trichlorofluoromethane	<10	500	480	96	440	88	9
1,1-Dichloroethene	<10	500	460	92	440	88	4
Methylene Chloride	<50	500	460	92	440	88	4
trans-1,2-Dichloroethene	<10	500	480	96	450	90	6
1,1-Dichloroethane	<10	500	500	100	460	92	8
Chloroform	<10	500	510	102	470	94	8
1,1,1-Trichloroethane	<10	500	510	102	470	94	8
Carbon Tetrachloride	<10	500	500	100	460	92	8
Benzene	<10	500	480	96	450	90	6
1,2-Dichloroethane	<10	500	520	104	470	94	10
Trichloroethylene	<10	500	480	96	460	92	4
Dichloropropane	<10	500	490	98	470	94	4
1,1-Dichloromethane	<10	500	500	100	470	94	6
Toluene	<10	500	590	118	460	92	25
1,1,2-Trichloroethane	<10	500	510	102	460	92	10
Tetrachloroethylene	<10	500	470	94	440	88	7
Dibromochloromethane	<10	500	480	96	440	88	9
Chlorobenzene	12	500	500	98	470	92	6
Ethylbenzene	<10	500	490	98	470	94	4
Xylenes (total)	<10	1500	1490	99	1430	95	4
Bromoform	<10	500	480	96	460	92	4

VOLATILE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SHEET

Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Matrix Spike Sample # 0410-15001-008

W.O. # 0410-15001

COMPOUND	SAMPLE CONC. ug/L	SPIKE CONC. ug/L	MS CONC. ug/L	MS % REC.	MSD CONC. ug/L	MSD % REC.	RPD
1,1,2,2-Tetrachloroethane	<10	500	520	104	480	96	8
o-Chlorotoluene	90	500	630	108	600	102	6
1,3-Dichlorobenzene	<10	500	500	100	470	94	6
1,4-Dichlorobenzene	<10	500	480	96	450	90	6
1,2-Dichlorobenzene	<10	500	490	98	460	92	6
Carbon disulfide	<50	500	380	76	370	74	3
Acetone	<100	500	530	106	440	88	19
2-chloroethyl vinyl ether	<20	ND	ND	ND	ND	ND	----
2-Butanone (MEK)	<100	500	480	96	430	86	11
4-Methyl-2-pentanone (MIBK)	<500	500	430	86	400	80	7
2-Hexanone	<500	500	500	100	420	84	17
Stryene	<10	500	500	100	480	96	4
cis-1,3-Dichloropropene	<10	500	470	94	440	88	7
trans-1,3-Dichloropropene	<10	500	490	98	450	90	9
Vinyl Acetate	<500	500	490	98	450	90	9
Dibromofluoromethane				104		102	
Dichloroethane-d4				104		99	
Toluene-d8				102		99	
4-Bromofluorobenzene				104		105	

VOLATILE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SHEET

Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Matrix Spike Sample # 0410-15001-014

W.O. # 0410-15001

COMPOUND	SAMPLE CONC. ug/L	SPIKE CONC. ug/L	MS CONC. ug/L	MS % REC.	MSD CONC. ug/L	MSD % REC.	RPD
Dichlorodifluoromethane	<500	2500	2850	114	3200	128	12
Chloromethane	<500	2500	2550	102	2750	110	8
Vinyl Chloride	<50	2500	2750	110	2950	118	7
Bromomethane	<500	2500	1750	70	2100	84	18
Chloroethane	<500	2500	2700	108	2800	112	4
Trichlorofluoromethane	<50	2500	2800	112	2850	114	2
1,1-Dichloroethene	<50	2500	2050	82	2200	88	7
Methylene Chloride	<250	2500	2200	88	2350	94	7
trans-1,2-Dichloroethene	<50	2500	2250	90	2400	96	6
1,1-Dichloroethane	<50	2500	2350	94	2450	98	4
Chloroform	<50	2500	2400	96	2500	100	4
1,1,1-Trichloroethane	<50	2500	2450	98	2550	102	4
Carbon Tetrachloride	<50	2500	2350	94	2500	100	6
Benzene	<50	2500	2200	88	2350	94	7
1,2-Dichloroethane	<50	2500	2550	102	2500	100	2
Trichloroethylene	<50	2500	2300	92	2500	100	8
1,1-Dichloropropane	<50	2500	2300	92	2450	98	6
Bromodichloromethane	<50	2500	2350	94	2450	98	4
Toluene	<50	2500	2300	92	2450	98	6
1,1,2-Trichloroethane	<50	2500	2500	100	2550	102	2
Tetrachloroethylene	<50	2500	2150	86	2300	92	7
Dibromochloromethane	<50	2500	2250	90	2400	96	6
Chlorobenzene	<50	2500	2300	92	2450	98	6
Ethylbenzene	<50	2500	2350	94	2500	100	6
Xylenes (total)	<50	7500	7050	94	7550	101	7
Bromoform	<50	2500	2300	92	2400	96	4

VOLATILE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SHEET

Name: RI ANALYTICAL

Client: CIBA SPECIALTY CHEMICALS CORP.

Matrix Spike Sample # 0410-15001-014

W.O. # 0410-15001

COMPOUND	SAMPLE CONC. ug/L	SPIKE CONC. ug/L	MS CONC. ug/L	MS % REC.	MSD CONC. ug/L	MSD % REC.	RPD
1,1,2,2-Tetrachloroethane	<50	2500	2800	112	2950	118	5
o-Chlorotoluene	170	2500	2750	103	2800	105	2
1,3-Dichlorobenzene	<50	2500	2350	94	2450	98	4
1,4-Dichlorobenzene	<50	2500	2150	86	2400	96	11
1,2-Dichlorobenzene	<50	2500	2200	88	2450	98	11
Carbon disulfide	<250	2500	2300	92	2450	98	6
Acetone	<500	5000	4500	90	4450	89	1
2-chloroethyl vinyl ether	<100	2500	950	38	900	36	5
2-Butanone (MEK)	<500	5000	6000	120	6300	126	5
4-Methyl-2-pentanone (MIBK)	<2500	5000	5800	116	5950	119	3
2-Hexanone	<2500	5000	6650	133	7100	142	7
Stryene	<50	2500	2350	94	2500	100	6
cis-1,3-Dichloropropene	<50	2500	2200	88	2350	94	7
trans-1,3-Dichloropropene	<50	2500	2350	94	2450	98	4
Vinyl Acetate	<2500	2500	2800	112	3000	120	7
Dibromofluoromethane				106		104	
o-Dichloroethane-d4				106		102	
Toluene-d8				101		99	
4-Bromofluorobenzene				109		106	

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORDPage 1 of 1

Container Type Codes:
P = Plastic V = Vial
G = Glass St = Sterile
AG = Amber Glass
O = Other (describe)

Preservative Codes:
NP = Non preserved S = Sulfuric
I = Cooled 4°C H = HCl
N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SL = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

Date Collected	Time Collected	Sample ID	G = Grab C = Comp.	Containers # + Code	Preservative Code	Matrix Code	Analyses Requested
10/4/04	1120	SW- 110	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1210	P-037S	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1010	P-038S	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1005	PW-110 pump house	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1440	P-036S	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1055	MW-001S	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1300	MW-012S	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *
10/4/04	1455	MW-4S	G	6 V**	H	GW	8260 including O-Chlorotoluene, field data *
10/5/04	1000	PW-120 pump house	G	3 V	H	GW	8260 including O-Chlorotoluene, field data *

Client Information**Project Information**

Company Name:	Ciba Geigy	Project Name / Location:	Ciba Geigy site on Mill Street in Cranston, RI		
Address:	Rt 37 West, PO BOX 71	P.O. Number:			
City / State / Zip:	Tom River, NJ 08754-0071			Report To:	Phone: Fax:
Phone:	(903) 914-2737	Fax:	(903) 914-2909		
Contact:	Mr. Barry Cohen			Reference Proposal:	

Relinquished by:	Date	Time	Received by:	Date	Time
	10.5.04	1645	J. Chraft	10.5.04	1645

Turn Around Time:
<input checked="" type="checkbox"/> Normal
<input type="checkbox"/> 5 business days Surcharges may apply
<input type="checkbox"/> Rush (business days)

Project Comments:

*pH, temperature, S.C., DO, measured in field. Field notes and results attached.

**QC to include
Matrix Spike, Matrix Spike Duplicate, Duplicate

RIAL USE ONLY:

- Pick-Up Only
- RIAL Sampled. Attach field hours
- Shipped on Ice

RIAL W.O. # 010-
15581

R.I. Analytical Laboratories, Inc.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

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N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SL = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

Date Collected	Time Collected	Sample ID	G = Grab C = Comp.	Containers # + Code	Preservative Code	Matrix Code	Analyses Requested
10/5/04	1015	SW-120	G	3 V	H	WW	8260 including O-Chlorotoluene, field data*
10/4/04	1200	PW-130 pump house	G	3 V	H	WW	8260 including O-Chlorotoluene, field data*
10/5/04	1035	P-35S	G	3 V	H	WW	8260 including O-Chlorotoluene, field data*
10/5/04	1030	MW-2S	G	3 V	H	WW	8260 including O-Chlorotoluene, field data*
10/5/04	1130	MW-21S	G	6 V**	H	WW	8260 including O-Chlorotoluene, field data*
10/4/04	0830	Trip Blank	G	2V	H	DI	8260 including O-Chlorotoluene
10/5/04	0830	Trip Blank	G	2V	H	DI	8260 including O-Chlorotoluene
10/4/04	1020	Equipment Blank	G	2V	H	DI	8260 including O-Chlorotoluene
10/5/04	1002	Equipment Blank	G	2V	H	DI	8260 including O-Chlorotoluene

Client Information

Project Information

Company Name: Ciba Geigy	Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI
Address: Rt 37 West, PO BOX 71	P.O. Number: Project Number:
City / State / Zip: Tom River, NJ 08754-0071	Report To: Phone: Fax:
Phone: (903) 914-2737	Sampled by: J. Chraft, D. DeFrancesco
Contact: Mr. Barry Cohen	Reference Proposal:

Relinquished by:	Date	Time	Received by:	Date	Time
	10/5/04	1645	Unlabeled Jars	10/6/04	1645

Turn Around Time:
<input checked="" type="checkbox"/> Normal
<input type="checkbox"/> 5 business days Surcharges may apply
<input type="checkbox"/> Rush (business days)

Project Comments:

* pH, temperature, S.C., D.O., measured in field. Field notes and results attached.

**QC to include:
Matrix Spike, Matrix Spike Duplicate, Duplicate

RIAL USE ONLY:

<input type="checkbox"/> Pick-Up Only
<input checked="" type="checkbox"/> RIAL Sampled. Attach field hours
<input checked="" type="checkbox"/> Shipped on Ice 04/10-15001 RIAL W.O. # 15001